

Appendix Table 4. (cont.)

Species	Number			Weight		
	TP 3	TP 4	TP 3	TP 3	TP 4	
<i>Anguilla rostrata</i>	7	15	7	15	15	
<i>Alosa aestivalis</i>	14	14	35	49		
<i>Alosa pseudoharengus</i>	7	-	35	-		
<i>Alosa sapidissima</i>	7	8	35	57		
<i>Opsanus tau</i>	7	21	7	301		
<i>Fundulus heteroclitus</i>	7	14	84	91		
<i>Menidia menidia</i>	161	173	693	601		
<i>Apeltes quadratus</i>	21	23	35	32		
<i>Gasterosteus aculeatus</i>	28	23	77	62		
<i>Syngnathus fuscus</i>	7	8	14	8		
<i>Microgong undulatus</i>	-	7	-	7		
<i>Chasmodes bosquianus</i>	7	-	56	-		
<i>Anmodytes</i> sp.	14	7	56	7		
<i>Gobiosoma boscii</i>	-	7	-	7		
<i>Myrophthalmus aeneus</i>	14	-	238	-		
<i>Pseudopleuronectes americanus</i>	287	132	26054	17123		
Fish fragments	-	-	-	21		
<i>Rana pipiens</i>	-	8	-	82		
Class Polychaeta	7	22	28	43		
<i>Palaeomonetes vulgaris</i>	3514	3112	1274	1216		
<i>Crangon septemspinosa</i>	21693	11664	20405	9638		
<i>Cancer irroratus</i>	28	7	2394	700		
Totals	25830	15266	51527	30060		

Appendix Table 4. (cont.)

Species	Number				Weight			
	TP 3	TP 4	TP 3	TP 4	TP 3	TP 4	TP 3	TP 4
<i>Alosa aestivalis</i>	57	40	164	118				
<i>Alosa pseudoharengus</i>	34	23	227	119				
<i>Cyprinodon variegatus</i>	22	12	34	21				
<i>Fundulus heteroclitus</i>	5	7	32	42				
<i>Fundulus majalis</i>	-	4	-	18				
<i>Menidia beryllina</i>	9	-	18	-				
<i>Menidia menidia</i>	722	361	3385	1988				
<i>Apeltes quadratus</i>	47	46	48	67				
<i>Gasterosteus aculeatus</i>	939	925	2561	2426				
<i>Syngnathus fuscus</i>	-	7	-	18				
<i>Tautoga onitis</i>	13	9	176	146				
<i>Tautogolabrus adspersus</i>	-	4	-	4				
<i>Myoxocephalus aenaeus</i>	8	-	97	-				
<i>Scophthalmus aquosus</i>	5	-	1428	-				
<i>Pseudopleuronectes americanus</i>	494	676	35592	78571				
Class Polychaeta	17	28	39	84				
<i>Palaeomonetes vulgaris</i>	7701	611	3803	267				
<i>Crangon septemspinosa</i>	20831	8115	18170	8542				
<i>Cancer irroratus</i>	8	-	666	-				
<i>Callinectes sapidus</i>	4	4	4	4				
<i>Procambarus acutus</i>	5	-	74	-				
Totals	30920	10871	66518	92434				

Appendix Table 4. (cont.)

Species	Number			Weight		
	TP 3	TP 4	TP 3	TP 3	TP 4	TP 4
<i>Anguilla rostrata</i>	36	40	-	12	10	-
<i>Conger oceanicus</i>	-	4	-	-	77	-
<i>Alosa aestivalis</i>	102	142	-	817	1662	-
<i>Alosa pseudoharengus</i>	104	169	-	846	1017	-
<i>Esox niger</i>	4	-	5	585	-	-
<i>Notemigonus crysoleucas</i>	4	-	5	28	14	-
<i>Opsanus tau</i>	4	-	5	578	-	-
<i>Urophycis chuss</i>	-	5	-	-	202	-
<i>Cyprinodon variegatus</i>	46	37	-	57	58	-
<i>Fundulus heteroclitus</i>	438	176	-	1474	655	-
<i>Fundulus majalis</i>	-	12	-	-	83	-
<i>Menidia</i> sp.	4	-	-	4	-	-
<i>Menidia menidia</i>	1019	1040	-	5378	5813	-
<i>Apeltes quadratus</i>	416	186	-	450	182	-
<i>Gasterosteus aculeatus</i>	1860	1102	-	5047	3071	-
<i>Syngnathus fuscus</i>	4	18	7	7	63	-
<i>Pantharchus pomotis</i>	4	-	-	329	-	-
<i>Tautoga onitis</i>	4	-	40	-	28	-
<i>Hypsoblemnius bentzii</i>	-	5	-	18	-	-
<i>Ammodytes</i> sp.	7	-	-	7	-	-
<i>Cobiosoma bosci</i>	4	-	-	234	33	-
<i>Myoxocephalus aenaeus</i>	11	5	-	18	-	-
<i>Scophthalmus aquosus</i>	9	-	-	-	-	-
<i>Pseudopleuronectes americanus</i>	424	737	-	351181	116466	-
<i>Trinectes maculatus</i>	4	-	350	-	56	-
Fish fragments	-	-	-	-	-	-
<i>Clarias</i> Polychaeta	1263	895	-	4774	2926	-
<i>Palaeomonetes vulgaris</i>	8092	4792	-	3980	2069	-
<i>Crangon septemspinosa</i>	8787	6847	-	7437	5121	-
<i>Cancer irroratus</i>	49	89	-	4238	6698	-
<i>Ovalipes ocellatus</i>	4	7	-	22	28	-
<i>Callinectes sapidus</i>	39	37	-	103	411	-
<i>Class</i> <i>Bolithuroidea</i>	23	44	-	272	478	-
<i>Procamarus acutus</i>	8	-	-	62	-	-
Totals	22771	16391	72345	147218		

Appendix Table 4. (cont.)

Species	Number				Weight			
	TP 3	TP 4	TP 3	TP 4	TP 3	TP 4	TP 3	TP 4
<i>Anguilla rostrata</i>	4	-	-	-	333	-	-	-
<i>Alosa aestivalis</i>	948	831	19559	18135				
<i>Alosa pseudoharengus</i>	519	802	9046	12464				
<i>Notemigonus crysoleucas</i>	-	-	12	-		72		
<i>Cyprinodon variegatus</i>	29	25	53	44				
<i>Fundulus heteroclitus</i>	133	195	545	991				
<i>Fundulus majalis</i>	5	7	142	91				
<i>Menidia beryllina</i>	-	13	-	-		13		
<i>Menidia menidia</i>	2550	3157	13820	17447				
<i>Melites quadracus</i>	224	294	234	331				
<i>Gasterosteus aculeatus</i>	2235	1938	5686	5044				
<i>Syngnathus fuscus</i>	124	128	285	206				
<i>Morone americana</i>	6	7	1556	518				
<i>Lepomis gibbosus</i>	12	-	33	-				
<i>Tautoga onitis</i>	47	56	6339	1439				
<i>Mugil curema</i>	-	11	-	92				
<i>Anchoa sp.</i>	-	12	-	24				
<i>Myoxocephalus aeneus</i>	19	7	729	119				
<i>Scoptopthalmus aquosus</i>	5	7	630	1218				
<i>Pseudopleuronectes americanus</i>	5814	4388	185418	160397				
Fish fragments	-	-	-	-		364		
Class. Polychaeta	352	389	929	1141				
<i>Palaeomonetes vulgaris</i>	4084	5983	1947	2390				
<i>Crangon septemspinosa</i>	31764	72529	24647	70846				
<i>Cancer irroratus</i>	11	25	548	2503				
Class. Holothuroidea	61	25	1167	280				
<i>Procambarus acutus</i>	5	-	194	-				
Totals	48951	90843	273840	296169				

Appendix Table 4. (cont.)

Species	Number			Weight		
	TP 3	TP 4	TP 3	TP 4	TP 3	TP 4
<i>Anguilla rostrata</i>	11	8	95	1755		
<i>Alosa aestivalis</i>	102	115	2996	2230		
<i>Alosa pseudoharengus</i>	109	161	1411	3681		
<i>Clupea harengus</i>	-	4	-	669		
<i>Opsanus tau</i>	7	-	14	-		
<i>Cyprinodon variegatus</i>	4	11	7	14		
<i>Fundulus heteroclitus</i>	210	94	721	391		
<i>Menidia beryllina</i>	-	9	-	18		
<i>Menidia menidia</i>	203	265	1152	1471		
<i>Apeltes quadracus</i>	224	114	298	117		
<i>Gasterosteus aculeatus</i>	291	301	781	790		
<i>Syngnathus fuscus</i>	588	414	1477	1002		
<i>Morone americana</i>	7	-	756	-		
<i>Lepomis gibbosus</i>	7	7	7	144		
<i>Tautoga onitis</i>	18	15	137	107		
<i>Chasmodes bosquianus</i>	-	4	-	21		
<i>Ammodytes sp.</i>	7	4	28	14		
<i>Scophthalmus aquosus</i>	4	4	1127	749		
<i>Pseudopleuronectes americanus</i>	84	86	11736	6656		
<i>Trinectes maculatus</i>	7	-	109	-		
Class Polychaeta	189	175	567	531		
<i>Palaemonetes vulgaris</i>	5492	1911	2331	662		
<i>Crangon septemspinosa</i>	31420	29164	25214	21961		
<i>Paupirus sp.</i>	4	-	7	-		
<i>Lipinia dubia</i>	4	-	7	-		
<i>Cancer irroratus</i>	42	46	4207	3898		
<i>Ovalipes ocellatus</i>	67	89	224	521		
<i>Callinectes sapidus</i>	1974	1454	2384	2316		
Class Holothuroidea	7	9	14	93		
Invertebrate fragments	-	-	-	28		
<i>Phylum Nemertea</i>	7	18	32	83		
<i>Procambarus acutus</i>	-	4	-	39		
Totals	41083	34483	57834	49959		

Appendix Table 4. (cont.)

Species	Number				Weight			
	TP 3	TP 4	TP 3	TP 4	TP 3	TP 4	TP 3	TP 4
<i>Anguilla rostrata</i>	14	14	931	140				
<i>Alosa aestivalis</i>	35	35	812	637				
<i>Alosa pseudoharengus</i>	32	25	553	445				
<i>Opsanus tau</i>	4	-	175	-				
<i>Cyprinodon variegatus</i>	4	-	11	-				
<i>Fundulus heteroclitus</i>	53	53	287	476				
<i>Fundulus majalis</i>	-	4	-	42				
<i>Menidia menidia</i>	186	256	1050	1512				
<i>Apeltes quadratus</i>	32	4	28	4				
<i>Gasterosteus aculeatus</i>	147	56	399	161				
<i>Syngnathus fuscus</i>	879	238	2153	655				
<i>Lepomis gibbosus</i>	4	4	11	4				
<i>Tautoga onitis</i>	4	11	21	70				
<i>Ammodytes</i> sp.	39	-	273	-				
<i>Scophthalmus aquosus</i>	-	4	-	1012				
<i>Pseudopleuronectes americanus</i>	18	11	1526	1453				
Class Polychaeta	4	11	18	28				
<i>Palaeomonetes vulgaris</i>	3434	907	1593	410				
<i>Crangon septemspinosa</i>	11666	15897	11333	15677				
<i>Cancer irroratus</i>	11	4	830	245				
<i>Ovalipes ocellatus</i>	14	11	28	28				
<i>Callinectes sapidus</i>	144	81	2349	1680				
Invertebrate fragments	-	-	-	4				
Phylum Nemertea	11	11	46	60				
Totals	16727	17630	24423	24738				

a. Time period 3 is from sunset to 6 h after sunset and time period 4 is from 6 h after sunset to sunrise.

b. Species number and weight are rounded to the nearest integer, but totals are the sums of actual values.

Appendix Table 5. Number of live, dead, and damaged fishes and macroinvertebrates impinged on the travelling Greek Generating Station from 3 September 1978 through 5 February 1979.

Date (mo day)	Hour	Period	Duration (hr min)	Tide	Temp (deg C)	air	sfc	bottom	Salinity (ppt)	sfc	bottom	sfc	bottom	sfc	bottom	pH	Sep 5	Sep 5	Sep 5	Sep 6	Sep 6	Sep 7										
																2020	2220	3	0	2	0											
																	Flood I	11	18.9	18.4	18.4	15.0										
																	20.6	23.0	23.0	22.8	22.8	25.5										
																	23.8	-	-	-	-	24.5										
																	23.4	-	-	-	-	24.7										
																	16.0	15.0	15.0	15.0	15.0	15.0										
																	16.5	-	-	-	-	15.0										
																	8.0	8.5	8.5	9.0	9.0	7.2										
																	8.4	-	-	-	-	7.2										
																	8.2	8.3	8.3	8.2	8.2	8.1										
																	8.2	-	-	-	-	8.1										
Species																	Number	Live	Dead	Damaged	Number	Live	Dead	Damaged	Number	Live	Dead	Damaged				
Anguilla rostrata																	1	1	1	1	1	1	1	1	1	1	1					
Anchoa mitchilli																	2	1	1	1	1	1	1	1	1	1	1					
Opsanus tau																	1	1	1	1	1	1	1	1	1	1	1					
Pomatomus saltatrix																	1	1	1	1	1	1	1	1	1	1	1					
Cynoscion regalis																	1	1	1	1	1	1	1	1	1	1	1					
Sphoeroides maculatus																	1	1	1	1	1	1	1	1	1	1	1					
Peneus aztecus																	1	1	1	1	1	1	1	1	1	1	1					
Ovalipes ocellatus																	1	1	1	1	1	1	1	1	1	1	1					
Callinectes sapidus																	15	3	47	42	5	67	48	19	59	38	3	18				
Totals																	25	19	1	5	49	43	0	6	68	49	0	19	62	41	3	18

Appendix Table 5. (cont.)

	Date (mo day)	Sep 7	Sep 7	Sep 11									
	Hour	2120	2320	2015									
	Period	3	3	3									
	Duration (hr min)	2	0	1									
Tide		Flood	Flood	Ebb									
Temp (deg C)	air	22.0	21.0	21.8									
	sfc	23.6	23.4	24.3									
bottom		-	-	24.3									
Salinity (ppt)	sfc	15.0	15.0	17.0									
bottom		-	-	17.0									
Oxygen	sfc	6.4	6.3	7.5									
bottom		-	-	7.5									
pH	sfc	8.0	7.9	8.1									
	bottom	-	-	7.9									
Species		Number	Live	Dead	Damaged	Number	Live	Dead	Damaged	Number	Live	Dead	Damaged
<i>Alosa aestivalis</i>		-	-	-	-	1	-	-	-	-	-	-	-
<i>Anchoa mitchilli</i>		-	-	-	-	3	-	-	-	4	-	-	-
<i>Caranx hippos</i>		-	-	-	-	-	-	-	-	1	1	-	-
<i>Sphoeroides maculatus</i>		1	1	-	-	-	-	-	-	1	1	-	-
<i>Penaeus aztecus</i>		1	1	-	-	1	-	-	-	1	1	-	-
<i>Ovalipes ocellatus</i>		-	-	-	-	48	31	2	15	43	32	1	10
<i>Callinectes sapidus</i>		-	-	2	1	1	-	-	-	-	-	-	-
<i>Callinectes similis</i>		-	-	-	-	-	-	-	-	-	-	-	-
Totals		2	1	1	0	53	31	6	16	50	35	5	10

Appendix Table 5. (cont.)

Appendix Table 5. (cont.)

Appendix Table 5. (cont.)

	Date (mo day)	Dec 7	Dec 7	Dec 11
	Hour	1700	1830	2030
Period		3	3	3
Duration (hr min)		1 30	2 0	2 30
Tide	Ebb I	Ebb I	Ebb II	Flood II
Temp (deg C)	9.5	8.1	9.5	-
bottom	7.8	7.6	7.6	5.4
sfc	8.2	-	-	6.2
Salinity (ppt)	16.0	16.0	16.0	21.0
bottom	16.0	-	-	18.0
sfc	12.8	11.5	11.1	11.1
Oxygen	11.8	-	-	11.3
bottom	8.1	8.0	8.0	8.1
sfc	8.1	-	-	8.1
pH				
bottom				
Species	Number	Live	Dead	Damaged
Conger oceanicus	-	-	-	-
Alosa aestivalis	1	1	-	-
Brevoortia tyrannus	1	-	1	1
Anchoa mitchilli	1	-	1	2
Opsanus tau	1	1	-	-
Rissoa marginata	-	-	-	-
Fundulus heteroclitus	1	1	-	-
Menidia menidia	17	9	9	-
Apeltes quadratus	3	3	2	1
Gasterosteus aculeatus	-	-	-	-
Syngnathus fuscus	36	34	2	10
Tautoga onitis	1	1	2	2
Tautogolabrus adspersus	-	-	-	-
Etrumeus microstomus	3	2	1	1
Pseudopleuronectes americanus	1	1	1	-
Trinectes maculatus	1	1	1	-
Glass Polychaeta	1	1	1	3
Palaeomonetes vulgaris	1	-	-	-
Crangon septentriionis	58	53	4	30
Cancer irroratus	-	-	1	10
Ovalipes ocellatus	7	3	2	12
Callinectes sapidus	3	3	2	1
Neopanope sayi	1	1	1	4
Phylum Nemertea	-	-	1	4
Totals	135	112	8	15 71 11 5 62 49 2 11 149 97 31 21

Appendix Table 5. (cont.)

	Date (mo day)	Dec 11	Dec 12	Dec 13	Dec 14	Dec 15	Dec 16	Dec 17	Dec 18
	Hour	1925	1926	1930	1930	1930	1930	1930	1700
Period		3	3	3	3	3	3	3	3
Duration (hr min)		2	5	2	0	2	0	0	30
Tide		Ebb I		Flood I		Flood II		Ebb II	
Temp (deg C)	air	-	5.6	"	4.8	"	4.0	"	3.1
	sfc				5.5				4.0
	bottom				20.0				3.8
Salinity (ppt)	sfc		22.0		21.0		20.0		20.0
	bottom				11.9				20.0
Oxygen	sfc		11.1		11.9		12.0		10.7
	bottom				12.2				10.9
pH	sfc		8.1		8.1		8.1		7.5
	bottom				8.1				7.5
Species	Number	Live	Dead	Damag	Number	Live	Dead	Damag	Number
<i>Alosa aestivalis</i>	1	-	-	1	18	1	-	17	6
<i>Brevoortia tyrannus</i>	2	-	-	2	1	1	-	1	1
<i>Anchoa mitchilli</i>	1	-	-	1	2	1	-	1	-
<i>Menidia menidia</i>	36	28	4	4	55	38	3	34	1
<i>Syngnathus fuscus</i>	10	9	1	1	11	9	2	1	1
<i>Tautoga onitis</i>	7	7	1	1	2	2	1	1	-
<i>Prionotus evolans</i>	1	1	-	1	1	1	-	1	-
<i>Etropsis microstomus</i>	2	-	-	2	1	-	1	-	-
<i>Pseudopleuronectes americanus</i>	2	-	-	2	11	9	-	2	18
<i>Palaemonetes vulgaris</i>	-	-	-	-	1	1	-	-	-
<i>Crangon septemspinosa</i>	-	-	-	-	190	166	17	17	129
<i>Ovalipes ocellatus</i>	4	3	-	1	-	-	-	-	89
<i>Phylium Nemerita</i>	1	-	-	1	-	-	-	-	33
Totals	67	47	4	16	292	227	21	44	107
							0	11	151
								107	34
								34	10

Appendix Table 5. (cont.)

	Date (mo day)	Dec 18	Dec 21	Dec 21
	Hour	1930	1630	1900
Period	3	3	3	3
Duration (hr min)	1 0	1 10	0 50	0 50
Tide	Flood	Ebb I	Ebb II	Ebb II
Temp (deg C)	3.1	4.0	2.5	0.5
Oxygen	air	sfc	sfc	3.3
pH	sfc	bottom	bottom	-
Salinity (ppt)	sfc	19.0	23.0	23.0
Oxygen	sfc	10.9	11.9	11.9
pH	bottom	8.0	8.0	8.0
	bottom	-	8.0	-
Species	Number	Live	Dead	Damaged
<i>Alosa aestivalis</i>	6	5	1	3
<i>Brevoortia tyrannus</i>	3	2	1	2
<i>Anchoa mitchilli</i>	1	1	1	1
<i>Cyprinodon variegatus</i>	1	1	1	1
<i>Menidia menidia</i>	5	2	1	5
<i>Apeltes quadratus</i>	1	2	1	1
<i>Syngnathus fuscus</i>	1	1	1	1
<i>Tautoga onitis</i>	1	1	1	1
<i>Gobiosoma boscii</i>	1	1	1	1
<i>Etrumeus microstomus</i>	1	1	1	1
<i>Pseudopleuronectes americanus</i>	63	44	19	5
<i>Class Polychaeta</i>	2	2	1	1
<i>Palaemonetes vulgaris</i>	-	-	2	1
<i>Crangon septemspinosa</i>	-	-	32	105
Totals	82	51	26	48

	Date 21	Date 21	Date 21
	1900	2140	2140
Period	3	3	3
Duration (hr min)	1 10	0 50	0 50
Tide	Ebb I	Ebb II	Ebb II
Temp (deg C)	4.0	2.5	0.5
Oxygen	3.8	3.8	3.3
pH	5.6	-	-
Salinity (ppt)	23.0	23.0	23.0
Oxygen	11.9	11.1	11.9
pH	8.0	8.0	8.0

Appendix Table 5. (cont.)

	Date (mo day)	Hour	Period	Duration (hr min)	Tide	Temp deg C)	air	sfc	bottom	Salinity (ppt)	sfc	bottom	sfc	bottom	pH	bottom	sfc	bottom	bottom	Dec 27	Dec 27	Dec 27	Dec 27	Dec 28
Species																				1650	1845	2130	2130	1725
	Number	Live	Dead																	3	3	0	0	3
<i>Alosa aestivalis</i>	2	-	-																	2	2	0	0	40
<i>Alosa pseudoharengus</i>	1	-	-																	-	-	-	-	Flood I
<i>Brevoortia tyrannus</i>	2	-	-																	2.8	2.8	3.3	3.3	4.0
<i>Anchoa mitchilli</i>	1	-	-																	-	-	-	-	1.5
<i>Merluccius bilinearis</i>	-	-	-																	-	-	-	-	19.0
<i>Urophycis chuss</i>	-	-	-																	-	-	-	-	-
<i>Cyprinodon variegatus</i>	1	1	1																	1	1	1	1	4
<i>Menidia menidia</i>	9	1	1																	2	1	1	1	1
<i>Apeltes quadratus</i>	7	1	1																	1	1	1	1	1
<i>Syngnathus fuscus</i>	-	-	-																-	-	-	-	-	
<i>Tautoga onitis</i>	-	-	-																-	-	-	-	-	
<i>Gobiosoma boscii</i>	-	-	-																-	-	-	-	-	
<i>Etrumeus microstomus</i>	1	-	-																-	-	-	-	-	
<i>Scophthalmus aquosus</i>	-	-	-																-	-	-	-	-	
<i>Pseudopleuronectes americanus</i>	4	4	4																2	2	2	2	2	
<i>Class Polychaeta</i>	-	-	-																-	-	-	-	-	
<i>Palaeomonetes vulgaris</i>	4	4	4																-	-	-	-	-	
<i>Crangon septemspinosa</i>	53	45	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	32	14	15	5	
Totals	78	54	9	15	36	25	4	7	55	34	2	19	75	43	15	17	75	75	75	75	75	75		

Appendix Table 5. (cont.)

	Date (mo day)	Dec 28	Jan 3
Hour	1930	2130	1730
Period	3	3	3
Duration (hr min)			
Tide	Flood	Ebb	Ebb
Temp (deg C)	air	sfc	sfc
bottom	sfc	sfc	sfc
Salinity (ppt)	bottom	bottom	bottom
Oxygen	sfc	bottom	bottom
pH	sfc	bottom	bottom
Anguilla rostrata	-	-	-
Alosa aestivalis	15	4	2
Alosa pseudoharengus	3	-	1
Brevoortia tyrannus	-	-	-
Anchoa mitchilli	-	-	-
Menticirrhus	1	-	-
bilinearis	-	-	-
Cyprinodon	-	-	-
variegatus	7	3	4
Menidia menidia	1	1	1
Apeltes quadratus	1	-	4
Syngnathus fuscus	3	3	2
Morone americana	1	4	5
Myoxocephalus	1	1	1
aeneus	-	-	-
Pseudopleuronectes	28	20	1
americanus	-	1	1
Glaucus	1	-	-
Polychaeta	-	-	-
Palamonetes	-	-	-
vulgaris	-	-	-
Crangon	48	25	16
septemspinosa	-	-	7
Totals	109	57	21
		31	98
		72	34
		7	31
		52	54
		5	41
		5	54
		11	11
		0	0
		43	43

Appendix Table 5. (cont.)

	Date (mo day)	Jan 4	Jan 4	Jan 4	Jan 8											
	Hour	1710	2045	1655	1930											
Period	1-3	-	3	3	3											
Duration (hr:min)	1-20	-	0 55	1 35	1 0											
Tide	Ebb I	-	Ebb II	Flood II	Ebb I											
Temp (deg C)	air	-	-	-	0.8											
	sfc	1.8	1.8	3.8	4.0											
	bottom	3.6	-	4.8	-											
Salinity (ppt)	sfc	21.0	22.0	20.0	20.0											
	bottom	21.0	-	20.0	-											
Oxygen	sfc	10.9	10.5	11.3	11.0											
	bottom	10.3	-	11.1	-											
pH	sfc	8.1	8.2	8.0	7.8											
	bottom	8.1	-	8.1	-											
Species	Number	Live	Dead	Damaged	Number	Live	Dead	Damaged	Number	Live	Dead	Damaged				
<i>Alosa aestivalis</i>	6	4	-	2	62	9	16	37	40	17	2	21	12	7	-	5
<i>Cyprinodon variegatus</i>	-	-	-	-	1	1	-	-	-	-	-	1	1	-	-	-
<i>Fundulus heteroclitus</i>	12	7	3	2	28	15	7	6	2	2	-	-	17	10	3	4
<i>Menidia menidia</i>	4	2	1	-	3	1	-	-	-	-	-	1	1	-	-	-
<i>Apeltes quadratus</i>	2	2	1	-	-	-	-	-	-	-	-	2	2	-	-	-
<i>Syngnathus fuscus</i>	1	1	-	-	-	-	-	-	-	-	-	2	2	-	-	-
<i>Tautoga onitis</i>	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
<i>Gobiosoma boscii</i>	1	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-
<i>Myoxocephalus aeneus</i>	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
<i>Scophthalmus aquosus</i>	1	-	1	2	1	-	-	-	-	-	-	1	1	-	-	-
<i>Pseudopleuronectes americanus</i>	7	3	-	4	5	2	-	3	5	4	2	-	1	7	6	1
<i>Glass Polychaeta</i>	-	-	-	-	-	-	-	-	8	-	-	-	1	1	-	6
<i>Palamoneutes vulgaris</i>	3	3	-	-	-	-	-	-	49	29	3	17	-	-	-	-
<i>Crangon septemspinosa</i>	97	96	1	-	-	-	-	-	49	29	3	17	-	-	-	-
Totals	129	115	5	9	102	30	23	49	108	61	7	40	58	38	3	17

Appendix Table 5. (cont.)

	Date (mo day)	Jan 11	Jan 15	Jan 18
Hour	2025	1832	2132	1740
Period	3	3	3	3
Duration (hr min)	1 5	2 0	2 0	0 50
Tide	Flood II	Flood I	Flood II	Ebb II
Temp (deg C)	air	-	-	-
sfc	-	0.5	0.8	0.8
bottom	-	2.0	-	2.5
Salinity (ppt)	sfc	20.0	19.0	23.0
bottom	-	-	20.0	23.0
Oxygen	sfc	12.0	12.5	13.1
bottom	-	-	12.4	12.6
pH	sfc	8.0	8.2	8.2
bottom	-	8.1	-	8.0
Species	Number	Live	Dead	Damaged
<i>Alosa aestivalis</i>	-	-	-	-
<i>Menidia menidia</i>	3	3	1	1
<i>Apeltes quadratus</i>	-	-	-	-
<i>Syngnathus fuscus</i>	1	1	2	1
<i>Morone americana</i>	-	-	-	-
<i>Scophthalmus aquosus</i>	-	-	-	-
<i>Pseudopleuronectes americanus</i>	-	-	-	-
<i>Glass Polychaeta</i>	-	-	-	-
<i>Palaemonetes vulgaris</i>	1	1	1	1
<i>Cranion septemspinosa</i>	102	65	17	20
	Totals	107	66	17
		24	73	64
		0	9	9
		6	1	2
		114	60	17
		37		

Appendix Table 5. (cont.)

Species	Number	Jan 18			Jan 22			Jan 25		
		Live	Dead	Damag	Live	Dead	Damag	Live	Dead	Damag
<i>Allossa aestivallis</i>	-	-	-	-	-	-	-	1	1	-
<i>Opsanus tau</i>	-	-	-	-	1	1	-	-	-	1
<i>Menidia menidia</i>	-	-	-	-	1	1	-	-	-	-
<i>Gasterosteus aculeatus</i>	-	-	-	-	1	1	-	-	-	-
<i>Tautoga onitis</i>	1	1	-	-	1	1	-	-	-	-
<i>Gobiosoma boscii</i>	-	-	-	-	-	-	-	-	-	-
<i>Pseudopleuronectes americanus</i>	21	4	4	17	10	4	6	10	7	3
<i>Clarias Polychaeta</i>	-	-	-	-	-	-	-	-	-	-
<i>Palaeomonetes vulgaris</i>	-	-	-	-	-	-	-	-	-	6
<i>Crangon septemspinosa</i>	-	-	-	-	52	47	5	-	-	23
Totals	22	5	0	17	66	53	1	12	18	14
								0	4	69
										38
										9
										22

Appendix Table 5. (cont.)

	Date (mo day)	Jan 25	Jan 29	Jan 29
	Hour	1930	1930	1930
	Period	3	3	3
	Duration (hr min)	1	0	0
Tide		Ebb	Flood	Flood
Temp (deg C)	air	1.0	1.5	1.0
	sfc	3.8	3.5	3.0
	bottom	-	4.0	-
Salinity (ppt)	sfc	22.0	22.0	20.0
	bottom	-	22.0	-
Oxygen	sfc	10.7	14.0	14.0
	bottom	-	14.0	-
pH	sfc	8.2	8.1	8.0
	bottom	-	8.1	-
Species		Number	Live	Dead
			Damaged	Number
<i>Alosa aestivalis</i>		-	-	1
<i>Alosa pseudoharengus</i>		-	2	5
<i>Alosa sapidissima</i>		-	-	2
<i>Merluccius bilinearis</i>		-	-	-
<i>Cyprinodon variegatus</i>		-	-	1
<i>Menidia menidia</i>	1	1	7	25
<i>Gasterosteus aculeatus</i>		-	25	13
<i>Pseudopleuronectes americanus</i>	24	4	17	12
<i>Class Polychaeta</i>	-	-	1	7
<i>Palaemonetes vulgaris</i>	3	2	15	-
<i>Crangon septemspinosa</i>	13	10	3	64
Totals		41	32	5
		4	147	104
		9	34	81
		1	46	1
			34	60
			1	36
			0	0
			24	24

Appendix Table 5. (cont.)

Species	Number	Live	Dead	Damag																
<i>Anguilla rostrata</i>	7	7	0	-	7	7	0	-	1	1	0	-	1	1	0	-	1	1	0	-
<i>Alosa aestivalis</i>	1	1	0	-	1	1	0	-	1	1	0	-	1	1	0	-	1	1	0	-
<i>Alosa sapidissima</i>	1	1	0	-	1	1	0	-	1	1	0	-	1	1	0	-	1	1	0	-
<i>Merluccius bilinearis</i>	1	1	0	-	1	1	0	-	1	1	0	-	1	1	0	-	1	1	0	-
<i>Menidia menidia</i>	4	3	1	-	1	3	3	-	2	2	0	-	2	2	0	-	2	2	0	-
<i>Gasterosteus aculeatus</i>	4	3	1	-	1	1	0	-	2	2	0	-	2	2	0	-	2	2	0	-
<i>Pseudopleuronectes americanus</i>	27	21	6	-	10	4	6	-	17	11	6	-	6	14	13	-	1	1	1	-
<i>Class Polychaeta</i>	1	1	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
<i>Palamoneutes vulgaris</i>	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-
<i>Crangon septemspinosa</i>	48	37	5	6	0	0	0	-	48	32	8	8	59	37	13	9	0	0	0	-
Totals	86	65	5	16	15	8	0	7	70	46	9	15	77	53	14	10	0	0	0	-

Appendix Table 6. Number of fishes and macroinvertebrates impinged on the Ristropf screen and taken in the live and debris troughs at the Oyster Creek Generating Station on 9 January 1979

Station	Date (Mo Day)	56	Jan 9
Hour		1955	3
Period	Duration (hr. min.)	0 30	
Tide		Ebb	1
Temp (deg C)	Air	-	
	Surface	2.6	
	Bottom	-	
Salinity (ppt)	Sfc	22.0	
	Bottom	-	
Oxygen	Surface	11.3	
	Bottom	-	
pH	Surface	8.1	
	Bottom	-	
		Live	Debris
		Numbr	Numbr
<i>Alosa aestivalis</i>		-	1
<i>Menidia menidia</i>		2	2
<i>Syngnathus fuscus</i>		1	-
<i>Hypsoblennius hentzii</i>		-	1
<i>Palaemonetes vulgaris</i>		1	8
<i>Crangon septemspinosa</i>		19	209
Totals		23	221

Appendix Table 7. Condition (live, damaged, dead) of fishes and macroinvertebrates impinged on the Ristroph screen and taken in the live and debris troughs at the Oyster Creek Generating Station from 28 November 1978 through 9 January 1979.

Station	56			56		
	Date (Mo Day)	Nov 28	Nov 28	Date (Mo Day)	Nov 28	Nov 28
Hour	1647	1741	Hour	3	3	
Period	0 10	0 10	Tide	Flood	Flood	
Duration (Hr Min)	4.0	4.0	Temp (Deg C)	Air	Air	
Tide	6.3	6.3	Surface	6.4	6.4	
Temp (Deg C)	4.0	4.0	Bottom	22.0	22.0	
Salinity (ppt) SFC	22.0	22.0	Bottom	22.0	22.0	
Oxygen	11.2	11.2	Surface	11.3	11.3	
PH	7.9	7.9	Bottom	7.9	7.9	
	Live	Trough	Debris	Live	Trough	Debris
	Live	Dead	Live	Live	Dead	Live
Species	Number	Number	Number	Number	Number	Number
Conger oceanicus	-	-	-	1	1	-
Syngnathus fuscus	1	-	1	5	5	5
Etrampus microstomus	-	-	-	1	1	-
Crangon septemspinosa	14	11	1	2	30	29
Totals	15	11	1	3	36	35

Appendix Table 7. (cont.)

Station	Date (Mo Day)	Nov 28	Nov 28	Nov 28	Nov 28
Hour	1839	3	0	10	1935
Period			Flood	IJII	3
Duration (Hr Min)					
Tide					
Temp (Deg C)	Air	3.5			
	Surface	6.1			
	Bottom	-			
Salinity (ppt) Sfc		22.0			
	Bottom	-			
Oxygen	Surface	11.5			
	Bottom	-			
PH	Surface	7.8			
	Bottom	-			
Species		Live	Trough	Live	Trough
		Live	Dead	Live	Dead
		Numbr	Damag	Numbr	Damag
Conger oceanicus		1	1	-	-
Palaemonetes		-	-	-	-
vulgaris		-	-	-	-
Crangon		39	37	1	130
septentrionosa		-	-	125	4
Totals		40	38	1	1
		131	126	4	1
		9	9	9	1
		-	-	31	1

Appendix .Table 7. (cont.)

Station	Date (Mo Day)	56	56
Hour	Nov 28	Nov 28	Nov 28
Period	2020	2120	2120
Duraton (Hr Min)	3	3	3
Tide	Flood	Ebb	I
Temp (Deg C)	Air 0.10	0.10	0.10
	Surface 2.9	Flood II	Flood II
	Bottom 5.7	Air 2.9	Air 3.0
Salinity (ppt)	SFC 22.0	Bottom 22.0	Bottom 22.0
Oxygen	Bottom -	Surface 11.7	Surface 11.2
pH	Bottom 7.9	Surface -	Bottom 7.9
			-
Species	Live	Debris	Debris
	Number	Live	Through
		Dead	Live
<i>Syngnathus fuscus</i>	1	1	1
<i>Palaemonetes vulgaris</i>	-	-	-
<i>Crangon septemspinosa</i>	17	16	1
		21	20
		1	1
		17	15
		1	1
		7	7
		2	1
		8	7
		1	1
		18	18
		17	17
		1	1
		22	21
		1	1
		18	15
		15	15
		1	1
		2	2
		8	8
		7	7
		1	1

Appendix Table 7. (cont.)

Station		56		56	
Date (Mo Day)	Nov 28	Date (Mo Day)	Dec 12	Date (Mo Day)	Dec 12
Hour	2210	Hour	1710	Hour	1710
Period	3	Period	3	Period	3
Duration (Hr Min)	0 10	Duration (Hr Min)	0 10	Duration (Hr Min)	0 10
Tide	Ebb	Tide	Flood	Tide	Flood
Temp (Deg C)	3.0	Temp (Deg C)	5.9	Temp (Deg C)	5.9
Air	5.7	Air	5.8	Air	5.8
Surface	5.9	Surface	20.0	Surface	20.0
Bottom	22.0	Bottom	20.5	Bottom	20.5
Salinity (ppt) SFC	22.0	Salinity (ppt) SFC	11.1	Salinity (ppt) SFC	11.1
Bottom	22.0	Bottom	11.4	Bottom	11.4
Oxygen	11.2	Oxygen	8.0	Oxygen	8.0
Surface	11.3	Surface	7.9	Surface	7.9
Bottom	11.3	Bottom	7.9	Bottom	7.9
pH	7.9	pH	7.9	pH	7.9
Live		Debris		Live	
Live	Dead	Live	Dead	Live	Dead
Species	Numbr	Numbr	Numbr	Numbr	Numbr
Brevoortia tyrannus	-	-	-	1	1
Menidia menidia	-	-	-	3	4
Syngnathus fuscus	-	-	2	2	4
Gobiosoma boscii	-	-	1	1	4
Palaemonetes vulgaris	-	-	-	5	4
Crangon septemspinosa	11	10	1	27	23
Cancer irroratus	-	-	-	1	1
Totals	11	10	1	39	32
				1	6
				55	41
				2	12

Appendix Table 7. (cont.)

Station	Date (Mo Day)	56	56
Hour	Dec 12	Dec 12	Dec 12
Period	1805	1900	1900
Duration (Hr Min)	3	3	3
Tide	0 10	0 10	0 10
Temp (Deg C)	Flood II	Flood II	Flood II
Air Surface	-	-	-
Bottom	5.6	4.9	4.9
Salinity (ppt) Sfc	-	-	-
Bottom	20.0	20.0	20.0
Oxygen	-	-	-
Surface	11.1	11.7	11.7
Bottom	-	-	-
pH	8.0	8.0	8.0
Surface	-	-	-
Bottom	-	-	-
Species	Number	Live	Live
		Trough	Trough
		Live	Live
		Dead	Dead
		Damag	Damag
		Numbr	Numbr
<i>Alosa aestivalis</i>	1	-	-
<i>Opsanus tau</i>	2	2	-
<i>Gobiosoma boscii</i>	-	-	1
<i>Myoxocephalus aeneus</i>	1	1	-
<i>Palaemonetes vulgaris</i>	3	3	-
<i>Crangon septemspinosa</i>	32	27	3
Totals	39	33	2
		4	80
		66	2
		12	34
		5	29
		-	68
		55	11
		2	2

Appendix Table 7. (cont.)

Species	Live			Debris			Live			Debris		
	Live	Dead	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead	Number
<i>Brevoortia tyrannus</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cyprinodon variegatus</i>	1	1	2	1	1	1	1	1	1	1	1	1
<i>Menidia menidia</i>	2	1	3	2	1	1	1	1	1	2	2	1
<i>Apeltes quadratus</i>	1	1	2	1	1	1	2	1	2	1	2	1
<i>Syngnathus fuscus</i>	2	2	4	3	2	2	2	1	2	1	2	1
<i>Gobiosoma boscii</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Palaemonetes vulgaris</i>	6	6	12	6	5	1	3	3	3	1	1	1
<i>Crangon septemspinosa</i>	37	31	68	62	57	5	31	30	31	42	32	8
Totals	49	41	6	2	73	62	9	2	38	35	3	9
									47	35	9	3

Appendix Table 7. (cont.)

Appendix Table 7. (cont.)

Appendix Table 7. (cont.)

Species	Live			Trough			Debris			Trough		
	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead
<i>Opsanus tau</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Menidia menidia</i>	-	-	-	-	2	2	-	-	-	-	-	-
<i>Apeltes quadratus</i>	1	1	-	-	-	-	-	-	-	-	-	-
<i>Tautoga onitis</i>	1	1	-	-	4	-	2	1	-	1	1	2
<i>Gobiosoma boscii</i>	1	-	1	-	-	-	-	3	3	-	3	2
<i>Palaemonetes vulgaris</i>	-	-	-	-	5	5	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	45	41	4	-	61	57	3	1	40	38	2	-
<i>Cancer irroratus</i>	-	-	-	-	-	-	1	1	-	45	42	3
Totals	48	42	6	-	72	64	5	3	45	42	3	-

Species	Live			Trough			Debris			Trough		
	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead
<i>Opsanus tau</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Menidia menidia</i>	-	-	-	-	2	2	-	-	-	-	-	-
<i>Apeltes quadratus</i>	1	1	-	-	-	-	-	-	-	-	-	-
<i>Tautoga onitis</i>	1	1	-	-	4	-	2	1	-	1	1	2
<i>Gobiosoma boscii</i>	1	-	1	-	-	-	-	3	3	-	3	2
<i>Palaemonetes vulgaris</i>	-	-	-	-	5	5	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	45	41	4	-	61	57	3	1	40	38	2	-
<i>Cancer irroratus</i>	-	-	-	-	-	-	1	1	-	45	42	3
Totals	56	53	0	Flood II	5.0	7.2	20.0	-	20.0	19.0	10.8	11.5

Species	Live			Trough			Debris			Trough		
	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead
<i>Opsanus tau</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Menidia menidia</i>	-	-	-	-	2	2	-	-	-	-	-	-
<i>Apeltes quadratus</i>	1	1	-	-	-	-	-	-	-	-	-	-
<i>Tautoga onitis</i>	1	1	-	-	4	-	2	1	-	1	1	2
<i>Gobiosoma boscii</i>	1	-	1	-	-	-	-	3	3	-	3	2
<i>Palaemonetes vulgaris</i>	-	-	-	-	5	5	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	45	41	4	-	61	57	3	1	40	38	2	-
<i>Cancer irroratus</i>	-	-	-	-	-	-	1	1	-	45	42	3
Totals	56	53	0	Flood II	5.0	7.2	20.0	-	20.0	19.0	10.8	11.5

Appendix Table 7. (cont.)

Station	56	56
Date (Mo Day)	Dec 18	Dec 18
Hour	1700	1805
Period	3	3
Duration (Hr Min)	0 10	0 10
Tide	Ebb II	Ebb II
Temp (Deg C)	3.1	3.0
Air	4.0	4.0
Surface	3.8	-
Bottom	20.0	20.0
Salinity (ppt) SFC	20.0	20.0
Bottom	20.0	-
Surface	10.7	10.9
Oxygen	10.7	10.9
Bottom	10.9	-
Surface	7.5	7.6
PH	7.5	-
Species	Live	Trough
	Numbr	Live
Anguilla rostrata	-	-
Alosa aestivalis	-	-
Brevoortia tyrannus	-	-
Urophycis chuss	-	-
Menidia menidia	1	1
Apeltes quadratus	1	1
Tautoga onitis	1	1
Gobiosoma boscii	1	1
Etrisops microstomus	1	1
Pseudopleuronectes americanus	8	7
Urosalpinx cinereus	-	-
Class Polychaeta	-	-
Palamoneutes	1	1
vulgaris	-	-
Crangon septemspinosa	41	38
Totals	44	39
	4	1
	82	74
	2	6
	26	24
	1	1
	79	66
	7	6

Appendix Table 7. (cont.)

Station	Date (Mo Day)	Dec 18	56	Dec 18	56
Hour		1855	3	2029	3
Period	(Hr Min)	0 10	-	0 10	-
Tide	Ebb	II	-	Flood I	-
Temp (Deg C)	Air	3.0	-	3.1	-
	Surface	4.0	-	2.7	-
	Bottom	-	-	-	-
Salinity (ppt) Sfc	Bottom	20.5	-	20.0	-
Oxygen	Surface	-	-	10.9	-
	Bottom	11.0	-	-	-
PH	Surface	-	-	8.0	-
	Bottom	7.6	-	-	-
Species		Live	Trough	Live	Trough
		Live	Dead	Live	Dead
		Numbr	Numbr	Numbr	Numbr
<i>Alosa aestivalis</i>		-	-	-	-
<i>Cyprinodon</i>		-	-	-	-
<i>variegatus</i>		-	-	-	-
<i>Apeltes quadratus</i>		-	-	-	-
<i>Syngnathus fuscus</i>		2	2	1	-
<i>Tautoga onitis</i>		-	-	1	-
<i>Gobiosoma boscii</i>		-	-	3	-
<i>Pseudopleuronectes</i>		-	-	-	-
<i>americanus</i>		4	4	20	14
<i>Class Polychaeta</i>		-	-	-	-
<i>Palaeomonetes</i>		-	-	-	-
<i>vulgaris</i>		-	-	1	1
<i>Crangon</i>		19	18	-	-
<i>Septemspinosa</i>		1	1	70	64
<i>Totalis</i>		25	24	1	-
		-	-	99	82
				10	7
				34	32
				2	-
				-	86
				75	4
				-	7

Appendix Table 7. (cont.)

Species	Live			Debris			Trough			Live			Debris			Trough		
	Numbr	Live	Dead	Numbr	Live	Dead	Numbr	Live	Dead	Numbr	Live	Dead	Numbr	Live	Dead	Numbr	Live	Dead
<i>Alosa aestivalis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Brevoortia tyrannus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Apeltes quadratus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gobiosoma boscii</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pseudopleuronectes americanus</i>	2	2	-	-	10	8	-	-	-	2	1	-	-	-	-	15	13	-
Class Polychaeta	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Palamoneutes vulgaris</i>	2	2	-	-	7	7	-	-	-	-	-	-	-	-	-	1	1	-
<i>Crangon septemspinosa</i>	24	23	1	-	37	31	5	1	30	30	-	-	-	-	87	85	2	-
Totals	29	27	1	1	57	47	5	5	31	31	-	-	-	-	107	101	3	3

Appendix Table 7. (cont.)

Appendix Table 7. (cont.)

Station	Date (Mo Day)	56	56
Hour	Dec 19	Dec 19	Dec 19
Period	1830	2020	2020
Duration (Hr Min)	3	3	3
Tide	0 10	0 10	0 10
Temp (Deg C)	Ebb II	Flood I	Flood I
Air	-	-	-
Surface	1.1	1.1	1.1
Bottom	-	-	-
Salinity (ppt) Sfc	20.5	-	-
Bottom	-	-	-
Oxygen	12.3	12.4	12.4
Surface	-	-	-
Bottom	-	-	-
pH	7.7	7.7	7.7
Bottom	-	-	-
Live	Live	Live	Live
	Debris	Trough	Trough
Species	Number	Number	Number
	Live	Live	Live
Anchoa mitchilli	-	-	-
Menidia menidia	-	-	-
Hypsoblennius hentzi	-	1	-
Pseudopleuronectes	-	6	4
americanus	-	1	2
Clas. Polychaetae	-	-	-
Palamoneutes	-	-	-
vulgaris	-	-	-
Crangon septemspinosa	3	3	27
Totals	3	3	35
			27
			8
			7
			6
			1
			56
			49
			2
			5

Appendix Table 7. (cont.)

Station	Date (Mo Day)	56	56
	Hour	Dec 19	Dec 19
Period	Duration (Hr Min)	2115	2205
Tide		3	3
Temp(Deg C)	Air	0 10	0 10
	Surface	Flood I	Flood I
	Bottom	-	-
Salinity (ppt) Sfc	Bottom	1.1	1.0
Oxygen	Bottom	20.5	20.5
	Surface	-	-
	Bottom	12.7	12.4
PH	Surface	-	-
	Bottom	7.7	7.7
			7.8
Species		Live	Trough
	Number	Live	Debris
		Live	Live
		Dead	Trough
		Dead	Debris
Apeltes quadratus	-	-	-
Microtropus undulatus	-	-	-
Gobiosoma boscii	-	-	-
Pseudopleuronectes americanus	.3	2	1
Class Polychaeta	-	-	-
Palamoneutes vulgaris	2	1	1
Crangon septemspinosa	33	32	1
Totals	38	35	1
		24	20
		3	1
		19	19
		-	-
		57	48
		4	4
		-	5

Appendix Table 7. (cont.)

Species	Live			Trough			Live			Trough			Debris			Trough		
	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead	Number	Live	Dead
<i>Alosa aestivalis</i>	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
<i>Brevoortia tyrannus</i>	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
<i>Menidia menidia</i>	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-
<i>Apeltes quadratus</i>	3	3	-	-	1	1	-	-	-	-	-	-	-	-	-	4	3	1
<i>Tautoga onitis</i>	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	5	-	-
<i>Gobiosoma boscii</i>	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	5	-	-
<i>Pseudopleuronectes americanus</i>	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	2	1	1
Class Polychaeta	-	-	-	-	2	2	-	1	1	-	-	-	-	-	-	-	-	-
<i>Palamoneutes vulgaris</i>	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	25	24	-	-	1	340	330	7	3	-	-	-	-	-	-	12	4	7
Totals	29	28	-	-	1	399	378	15	6	-	-	-	-	-	-	1	4	7

APPENDIX Table 7. (cont.)

Appendix Table 7. (cont.)

Appendix Table 7. (cont.)

Species	Number	Live	Trough	Debris																		
<i>Merluccius bilinearis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Apeltes quadratus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gobiosoma boscii</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pseudopleuronectes americanus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Class Polychaeta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Palaemonetes vulgaris</i>	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	37	32	2	3	76	73	3	1	-	-	1	-	-	-	-	-	2	1	-	1	-	-
Totals	38	33	2	3	81	75	2	4	1	-	1	-	-	-	-	-	2	1	-	1	-	-

Appendix Table 7. (cont.)

APPENDIX .Table 7. (cont.)

Station	56			56				
	Date (Mo Day)	Dec 29	Dec 29	Date (Mo Day)	Dec 29	Dec 29		
Hour	2105		Hour	2200		Hour	3	3
Period	3		Tide	0 10		Tide	0 10	
Duration (Hr Min)	0 10		Flood	II		Ebb	I	
Tide	Flood		Air Temp(Deg C)	0.8		Air Surface	0.6	
Bottom	-		Bottom	20.0		Bottom	19.0	
Salinity (ppt) SFC	-		Bottom	-		Bottom	19.5	
Oxygen	15.5		Surface	15.5		Surface	15.5	
Bottom	-		Bottom	7.8		Bottom	16.1	
pH	7.8		Bottom	-		Bottom	7.7	
	-			-			7.6	
	Live Trough			Live Trough			Debris	
	Live	Live	Dead	Live	Live	Dead	Live	Dead
	Number	Number	Damag	Number	Number	Damag	Number	Damag
Species	Nemidilia menidia			Syngnathus fuscus			Trough	
	-			-			Dead	
	-			-			Dead	
	-			-			Damag	
	-			-			Damag	
	-			-			Damag	
	-			-			Damag	
	-			-			Damag	
	-			-			Damag	
	-			-			Damag	
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	-			-			Damag	
	-			-			Damag	
	-			-			Damag	
	-			-				

Appendix Table 7. (cont.)

Appendix Table 7. (cont.)

Station	Date (Mo Day)	Jan 56	Jan 2	Jan 2
Hour	1955	2000	3	3
Period	0 10	Flood I	0 10	0 10
Duration (Hr. Min.)	3	Flood I	Flood II	Flood II
Tide	9.0	9.0	5.5	5.5
Temp (Deg C)	8.0	8.0	7.5	7.5
Surface	-	-	-	-
Bottom	-	-	-	-
Salinity (ppt) SFC	21.0	21.0	20.0	20.0
Bottom	-	-	-	-
SurFace	11.1	11.1	11.5	11.5
Bottom	-	-	-	-
PH	8.1	8.1	8.0	8.0
SurFace	-	-	-	-
Bottom	-	-	-	-
Species	Numbr	Live	Trough	Debris
		Live	Live	Live
<i>Alosa aestivalis</i>	-	-	-	-
Class Polychaeta	-	-	-	-
<i>Ovalipes ocellatus</i>	1	1	1	1
Totals		3	3	2
		1	1	1

Appendix Table 7. (cont.)

Appendix Table 7. (cont.)

Station Date (Mo Day) Hour	56 Jan 9 1720	56 Jan 9 1828																			
Period	3	3																			
Duration (Hr Min)	0 10	0 10																			
Tide	Flood II	Flood II																			
Temp (Deg C)	-	-																			
Air	2.0	1.7																			
Surface	3.7	-																			
Bottom	20.0	22.0																			
Salinity (ppt) Sfc	-	-																			
Bottom	20.0	-																			
Surface	11.2	11.2																			
Oxygen	10.6	-																			
Bottom	8.1	8.1																			
PH	8.1	-																			
Bottom	8.1	-																			
Debris Through																					
Live Trough																					
Species	Numbr	Live	Live	Dead	Debris	Live	Live	Trough	Debris	Through	Debris	Live	Live	Dead	Damag	Numbr	Live	Live	Dead	Damag	
<i>Syngnathus fuscus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Hypsoblennius hentzi</i>	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-
<i>Gobiosoma boscii</i>	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1	-
<i>Pseudopleuronectes americanus</i>	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	3	3	3	-	-	-
<i>Palamoneutes vulgaris</i>	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	1	1	-	33	33	-	-	1	1	-	-	29	28	-	-	1	-	-	-	-	-
Totals	1	1	-	38	36	2	-	1	1	-	-	34	32	1	1	-	-	-	-	-	-

Appendix Table 7. (cont.)

Species	Live			Trough			Live			Trough			Debris		
	Numbr	Live	Dead	Numbr	Live	Dead	Numbr	Live	Dead	Numbr	Live	Dead	Numbr	Live	Dead
<i>Alosa aestivalis</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Opsanus tau</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Menidia menidia</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Apeltes quadratus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Syngnathus fuscus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pseudopleuronectes americanus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Palaemonetes vulgaris</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	3	3	-	-	22	21	1	-	5	5	-	-	39	39	-
Totals	3	3	-	-	26	24	2	-	6	6	-	-	47	44	1

Appendix Table 7. (cont.)

Station	Date (Mo Day)	56					
Hour		Jan 9					
Period		2200					
Duration (Hr Min)		3					
Tide		0 10					
Temp (Deg C)	Air	Ebb I					
	Surface	-					
	Bottom	1.6					
Salinity (ppt)	SFC	2.5					
	Bottom	22.0					
Oxygen	Sur face	22.0					
	Bottom	11.1					
pH	Sur face	10.9					
	Bottom	8.1					
	Sur face	8.1					
	Bottom	8.1					
Species		Live	Trough	Debris	Trough	Debris	Trough
		Numbr	Live	Dead	Live	Dead	Damag
<i>Apeltes quadratus</i>		-	-	-	1	1	-
<i>Syngnathus fuscus</i>		-	-	-	1	1	-
<i>Palaeomonetes vulgaris</i>		-	-	-	1	1	-
<i>Crangon septemspinosa</i>	.3	3	-	-	28	28	-
Total s		3	3	-	31	31	-

Appendix Table 8. Number of fishes, sand shrimp, and blue crab taken by 4.9-m trawl from September 1978 through March 1979 in the mouths of Cedar Creek (Sta. 1), Forked River (Sta. 17), and Double Creek (23).

Station	Replicate	1	1	1	4	4	17	17	23	23	4
Date (mo day)	Sep 6	Sep 6	Sep 6	Sep 6	Sep 6	Sep 6	Sep 6	Sep 6	Sep 6	Sep 6	Sep 5
Hour	910	930	1000	1020	1030	1045	1115	1138	2040	2101	
Period	Day	Day	Day	Day	Day	Day	Day	Day	Night	Night	
Tide	Flood I	Flood I	Flood I	Flood I	Flood I	Flood I	Flood II	Flood II	Flood I	Flood I	
Temp (Deg C)	air	25.0	25.0	27.0	27.0	27.0	27.0	27.0	27.5	27.5	
Salinity (ppt)	sfc	21.5	21.5	22.7	22.7	22.7	25.7	25.7	23.3	23.3	
Oxygen	bottom	22.7	22.7	22.8	22.8	22.8	25.9	25.9	23.6	23.6	
pH	sfc	7.5	8.0	15.0	15.0	15.0	16.0	16.0	19.5	19.5	
Secchi (cm.)	bottom	12.5	13.0	15.0	15.0	15.0	17.0	17.0	20.0	20.0	
	sfc	7.8	7.8	8.6	8.6	8.6	7.9	7.9	8.0	8.0	
	Bottom	7.8	7.8	8.6	8.6	8.6	7.6	7.6	8.1	8.0	
	sfc	7.4	7.4	7.2	7.2	7.2	7.5	7.5	7.4	7.4	
	bottom	7.4	7.4	7.4	7.4	7.4	7.5	7.5	7.4	7.4	
		85.0	85.0	120.0	120.0	120.0	140.0	140.0	100.0	100.0	
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Anguilla rostrata	-	-	-	-	-	-	-	-	-	-	1
Anchoa mitchilli	788	276	29	26	1	-	526	137	20	20	6
Opsanus tau	-	1	-	1	-	-	3	2	1	1	7
Menidia menidia	-	-	1	-	1	-	1	1	-	6	1
Cynoscion regalis	-	1	-	1	-	1	1	1	-	-	16
Tautoga onitis	-	-	-	-	-	-	-	-	-	-	8
Prionotus evolans	-	-	-	-	-	-	-	-	-	-	3
Sphoeroides maculatus	-	-	-	-	-	-	-	-	-	-	1
Crangon septemspinosa	-	-	2	2	1	1	2	1	1	1	2
Callinectes sapidus	2	2	3	3	4	4	5	5	6	6	4
Total Specimens	790	280	31	28	7	5	534	139	30	45	
Taxa	2	4	3	3	4	3	6	2	4	9	

Appendix Table 8. (cont.)

Station	17	17	1	1	4	4	17	17	23	23
Replicate	Sep 5	Sep 5	Oct 3							
Date (mo day)	2135	2220	950	1005	1030	1045	1135	1150	1210	1225
Hour	Night	Night	Day							
Period	Flood I	Flood II								
Tide	23.0	18.0	18.0	18.0	19.0	19.0	21.0	21.0	21.5	21.5
Temp (Deg C)	air	26.7	16.4	16.4	17.5	17.5	18.8	18.8	17.8	17.8
Temp (sfc)	sfc	27.0	16.7	16.8	17.0	17.0	17.4	17.4	17.8	17.8
Salinity (ppt)	bottom	27.0	16.8	16.8	17.0	17.0	17.4	17.4	17.8	17.8
Oxygen	sfc	17.0	17.0	11.5	11.5	20.0	20.0	16.0	16.0	21.5
Bottom	bottom	17.0	17.0	11.5	12.0	20.5	20.5	17.0	17.0	21.0
PH	sfc	8.0	8.0	8.6	8.6	8.8	8.8	8.2	8.2	8.5
Secchi (cm)	Bottom	7.8	7.8	8.7	8.7	8.9	8.9	8.3	8.3	8.6
	sfc	7.5	7.6	7.8	7.7	7.9	7.9	8.1	8.1	8.2
	bottom	7.6	7.6	7.8	7.8	8.1	8.1	8.2	8.2	8.3
			130.0	130.0	135.0	135.0	140.0	140.0	130.0	130.0
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Anguilla rostrata	-	-	-	-	-	-	-	-	-	-
Anchoa mitchilli	1	-	320	83	66	24	134	31	301	46
Opisthon tau	-	5	-	-	-	-	-	-	-	-
Menidia menidia	-	-	-	1	-	-	-	-	2	2
Syngnathus fuscus	-	-	-	-	-	-	-	-	1	1
Caranx hippos	2	1	-	-	-	-	-	-	1	-
Selene vomer	-	-	-	-	-	-	-	-	1	-
Stenotomus chrysops	1	-	-	-	1	1	1	1	1	1
Cynoscion regalis	-	-	-	-	-	-	-	-	-	-
Menticirrhus saxatilis	-	1	-	-	-	-	-	-	-	1
Gobiosoma boscii	-	1	-	-	1	-	-	-	-	-
Paralichthys dentatus	-	-	-	-	-	-	-	-	-	-
Crangon septemspinosa	-	-	2	4	-	3	2	-	1	2
Callinectes sapidus	2	2	-	-	3	3	-	-	1	2
Total Specimens	6	11	324	85	70	27	136	32	309	55
Taxa	4	6	2	3	3	3	3	2	2	5

Appendix Table 8. (cont.)

Station	4	4	17	17	1	1	4	4	17	17
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Oct 3	Oct 3	Oct 3	Oct 3	Nov 7	Nov 7	Nov 7	Nov 7	Nov 7	Nov 7
Hour	1959	2032	2058	2118	1018	1045	1112	1130	1206	1225
Period	Night	Night	Night	Night	Day	Day	Day	Day	Flood I	Flood I
Tide	Flood I	Flood I	Flood I	Flood I	Flood II	Flood II	Flood II	Flood II	Flood I	Flood I
Temp (Deg C)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	16.0	16.0
Salinity (ppt)	17.9	18.0	17.9	17.7	17.7	13.0	13.0	15.0	15.0	13.1
Oxygen	sfc	sfc	sfc	sfc	sfc	12.8	12.8	12.8	13.1	13.1
pH	bottom	bottom	bottom	bottom	bottom	12.6	12.6	12.6	12.6	12.6
Secchi (cm.)	sfc	sfc	sfc	sfc	sfc	11.6	11.6	11.6	11.6	11.6
Anguilla rostrata	3	-	-	-	-	-	-	-	-	-
Conger oceanicus	3	-	-	-	-	-	-	-	-	-
Anchoa mitchilli	53	1	18	5	66	5	5	31	11	2
Opsanus tau	-	1	-	2	-	-	-	3	15	-
Menidia menidia	-	-	1	1	-	-	-	-	-	-
Syngnathus fuscus	2	4	7	2	-	-	-	-	-	-
Cynoscion regalis	23	1	1	1	-	-	-	-	-	-
Tautoga onitis	-	-	-	-	-	-	-	-	-	-
Chasmodes bosquianus	-	-	-	-	-	-	-	-	-	-
Gobiosoma boscii	14	-	-	-	-	-	-	-	-	-
Prionotus evolans	1	-	-	-	-	-	-	-	-	-
Pseudopleuronectes americanus	1	-	-	-	1	-	-	-	-	-
Trinectes maculatus	-	-	-	-	-	-	-	-	-	-
Crangon septemspinosa	98	9	5	7	4	9	1	4	7	4
Callinectes sapidus	5	1	-	-	-	-	-	-	-	-
Total Specimens	203	18	38	22	85	9	41	30	2	2
Taxa	10	7	5	7	5	2	3	3	1	2

Appendix Table 8. (cont.)

Station	23	23	4	4	17	17	1	1	1	4
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Nov 7	Nov 7	Nov 7	Nov 7	Nov 7	Nov 7	Dec 5	Dec 5	Dec 5	Dec 5
Hour	1308	1340	1805	1840	1906	1931	1042	1042	1108	1130
Period	Day	Night	Night	Night	Night	Night	Day	Day	Day	Day
Tide	Flood II	Ebb II	Flood I	Ebb II	Flood I					
Temp (Deg C)	15.0	15.0	13.0	13.0	13.0	13.0	8.0	8.0	9.0	9.0
Salinity (ppt)	sfc	sfc	sfc	sfc	sfc	sfc	sfc	sfc	sfc	sfc
Oxygen	bottom	bottom	bottom	bottom	bottom	bottom	bottom	bottom	bottom	bottom
pH	9.7	9.7	9.7	9.7	9.7	9.7	9.4	9.4	10.7	10.8
Seccchi (cm.)	9.6	9.7	9.8	9.8	9.8	9.5	9.6	10.5	10.5	10.5
Anchoa mitchilli	58	142	299	307	-	-	-	-	1	1
Opsanus tau	-	-	-	-	1	-	-	-	-	-
Menidia menidia	4	7	15	6	-	-	15	1	27	47
Apeltes quadratus	2	-	-	-	1	-	-	-	-	1
Syngnathus fuscus	-	1	1	-	-	-	-	-	-	-
Morone americana	-	1	1	-	-	-	-	-	-	-
Cynoscion regalis	-	1	1	-	-	-	-	-	-	-
Tautoga onitis	1	-	-	-	1	-	-	-	-	-
Gobiosoma boscii	-	-	-	-	-	-	-	-	-	1
Etrumeus microstomus	-	-	-	-	-	-	-	-	-	-
Scophthalmus aquosus	-	-	-	-	1	-	-	-	-	-
Pseudopleuronectes americanus	2	2	3	1	1	3	2	1	4	4
Trinectes maculatus	-	-	3	1	4	1	-	-	-	-
Crangon septemspinosa	81	70	429	236	365	110	2	4	12	15
Callinectes sapidus	-	-	1	-	-	-	-	-	-	-
Total Specimens	148	222	749	550	374	116	19	6	44	69
Taxa	6	5	7	4	7	5	3	3	4	6

Appendix Table 8. (cont.)

Station	17	17	23	23	4	4	17	17	1	1
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Dec 5	Dec 5	Dec 5	Dec 5	Dec 5	Dec 5	Dec 5	Dec 5	Jan 9	Jan 9
Hour	1156	1217	1325	1358	1740	1810	1850	2012	1040	1109
Period										
Tide	Flood	II	Flood	II	Flood	II	Flood	II	Flood	II
Temp (Deg C)	air	9.0	9.0	8.5	8.5	7.0	7.0	5.0	5.0	4.5
	sfc	7.7	7.7	7.4	7.4	7.3	7.3	6.9	6.9	-4.5
Salinity (ppt)	bottom	18.6	18.0	7.5	7.4	8.0	7.9	6.6	6.6	0.5
Oxygen	bottom	19.0	19.0	24.0	25.0	22.0	22.0	20.0	20.0	16.0
pH	bottom	10.3	10.3	24.0	25.0	24.0	24.0	24.0	24.0	15.5
Secchi (cm)	Bottom	10.3	10.3	11.0	11.2	12.4	12.4	11.4	11.4	11.1
	sfc	8.0	8.0	8.2	8.2	8.1	8.1	8.2	8.2	11.1
	bottom	8.0	8.0	8.2	8.2	8.1	8.1	8.1	8.1	7.8
		110.0	110.0	180.0	180.0	-	-	-	-	7.8
										120.0
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
<i>Alosa pseudoharengus</i>	-	-	-	-	-	-	-	-	-	-
<i>Brevoortia tyrannus</i>	-	1	-	-	-	-	-	-	-	-
<i>Anchoa mitchilli</i>	-	2	-	-	-	-	-	-	-	-
<i>Menidia menidia</i>	-	19	-	-	2	-	-	-	-	1
<i>Apeltes quadratus</i>	-	1	-	-	24	-	2	-	-	1
<i>Syngnathus fuscus</i>	-	1	-	-	67	-	7	-	-	3
<i>Tautoga onitis</i>	-	1	-	-	1	-	2	-	-	-
<i>Tautogolabrus adspersus</i>	-	1	-	-	1	-	1	-	-	-
<i>Gobiosoma boscii</i>	-	2	-	-	1	-	1	-	-	-
<i>Etropsis microstomus</i>	-	1	-	-	1	-	1	-	-	-
<i>Scophthalmus aquosus</i>	-	1	-	-	1	-	1	-	-	-
<i>Pseudopleuronectes americanus</i>	-	1	-	-	1	-	1	-	-	-
<i>Trinectes maculatus</i>	-	1	-	-	21	-	37	-	1	1
<i>Crangon septemspinosa</i>	42	520	33	165	1852	1100	2407	3153	4	-
<i>Callinectes sapidus</i>	-	2	1	-	6	6	27	7	-	-
Total Specimens	42	550	58	236	1891	1167	2461	3165	7	4
Taxa	1	10	3	5	7	7	5	4	2	-

Appendix Table 8. (cont.)

Station	4	4	17	17	23	23	4	4	17	17
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Jan 9	Jan 9	Jan 9	Jan 9						
Hour	1120	1135	1200	1235	1320	1335	1823	1855	1931	2000
Period	Day	Day	Day	Day	Day	Day	Night	Night	Night	Night
Tide	Ebb II	Flood II	Flood II	Flood II	Flood II					
Temp (Deg C)	-4.0	-4.0	-2.0	-2.0	-1.5	-1.5	-5.0	-5.0	-7.0	-7.0
Temp (Deg C)	air	sfc	air	sfc	air	sfc	air	sfc	air	sfc
Salinity (ppt)	0.5	0.5	0.5	0.5	4.5	4.5	1.0	0.3	4.0	4.5
Oxygen	bottom	bottom	bottom	bottom						
pH	sfc	sfc	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom
Secchi (cm.)	7.9	7.9	11.9	11.9	11.1	11.1	11.7	11.7	11.7	11.7
	bottom	bottom	bottom	bottom						
	100.0	100.0	100.0	100.0	80.0	80.0	100.0	100.0	100.0	100.0
Species	No.	No.	No.	No.						
Anguilla rostrata	-	-	-	-	-	-	-	-	-	-
Alosa aestivalis	-	-	-	-	-	-	-	-	-	-
Alosa pseudoharengus	-	-	-	-	-	-	-	-	-	-
Alosa sapidissima	-	-	-	-	-	-	-	-	-	-
Opsanus tau	-	-	-	-	-	-	-	-	-	-
Menidia menidia	-	-	-	-	-	-	-	-	-	-
Apeltes quadratus	2	2	2	2	1	1	9	10	17	17
Syngnathus fuscus	1	1	1	1	1	1	1	1	8	8
Tautoga onitis	-	-	-	-	-	-	-	-	-	-
Gobiosoma boscii	-	-	-	-	-	-	-	-	-	-
Etrumeus microstomus	-	-	-	-	-	-	-	-	-	-
Pseudopleuronectes americanus	-	1	4	1	-	-	1	1	1	1
Crangon septemspinosa	-	-	534	397	-	-	139	187	2652	2440
Total Specimens	4	3	544	473	9	11	164	199	2679	2460
Taxa	3	2	5	8	1	2	5	5	6	9

Appendix Table 8. (cont.)

Station	1	1	4	4	17	17	23	23	4	4
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Mar 13	Mar 13	Mar 13	Mar 13	Mar 13	Mar 13	Mar 13	Mar 13	Mar 13	Mar 13
Hour	905	926	953	1014	1035	1136	1219	1250	1932	2006
Period	Day	Day	Day	Day	Ebb I	Day	Day	Ebb I	Night	Night
Ride	Flood II	Flood II	Flood II	Flood II	Ebb I	Ebb I	Ebb I	Ebb I	Flood II	Flood II
Temp (deg C)	air	4.0	4.0	4.0	4.0	6.0	7.0	7.0	3.0	3.0
sfc	3.5	3.5	6.5	6.5	6.5	9.0	9.0	5.3	5.2	5.2
bottom	3.5	3.5	6.2	6.2	8.5	8.5	8.5	5.2	11.0	11.0
Salinity (ppt)	sfc	4.0	4.5	13.0	13.0	13.5	13.5	16.0	16.0	16.0
bottom	9.5	10.0	10.6	13.5	13.5	13.0	13.0	17.0	17.0	17.0
Oxygen	sfc	10.4	10.6	10.8	10.8	10.4	10.4	10.4	11.0	11.0
Bottom	10.7	10.7	10.8	10.8	10.8	9.7	9.7	11.1	11.3	12.0
pH	sfc	7.9	8.0	8.1	8.1	7.9	7.9	8.2	8.2	8.2
bottom	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1	7.8	7.8
Secchi (cm.)	87.0	87.0	77.0	77.0	120.0	120.0	100.0	100.0	-	-
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
<i>Alosa aestivalis</i>	-	-	-	1	1	-	-	-	2	-
<i>Alosa pseudoharengus</i>	-	-	-	2	2	-	-	-	1	1
<i>Fundulus heteroclitus</i>	-	-	-	-	-	1	1	-	-	-
<i>Menidia beryllina</i>	-	1	-	1	1	-	-	-	-	-
<i>Menidia menidia</i>	-	-	1	1	1	-	-	1	6	9
<i>Apeltes quadratus</i>	1	-	-	7	1	-	-	1	-	-
<i>Gasterosteus aculeatus</i>	-	-	-	-	-	-	1	-	-	-
<i>Pseudopleuronectes americanus</i>	2	1	-	5	4	13	6	3	6	5
<i>Crangon septemspinosa</i>	4	1	20	16	66	153	76	45	117	23
<i>Callinectes sapidus</i>	-	-	-	1	-	-	-	-	3	1
Total Specimens	7	3	21	28	75	171	85	49	135	39
Taxa	3	3	2	3	6	6	5	3	6	5

Appendix Table 8. (cont.)

Species	No.	No.
<i>Anguilla rostrata</i>	2	-
<i>Alosa aestivalis</i>	1	-
<i>Fundulus</i>	-	-
<i>heteroclitus</i>	1	-
<i>Apeltes quadratus</i>	10	2
<i>Gobiosoma boscii</i>	-	1
<i>Pseudopleuronectes</i>	3	12
<i>americanus</i>	6	11
<i>Trinectes maculatus</i>	1	1
<i>Crangon</i>	-	-
<i>septemspinosa</i>	370	21
<i>Callinectes sapidus</i>	6	1
Total Specimens	427	38
Taxa	8	6

Appendix Table 9. Number of fishes, sand shrimp, and blue crab taken by 45.7-m seine from September 1978 through March 1979 in the mouths of Cedar Creek (sta. 1), Forked River (4), Oyster Creek (17), and Double Creek (23).

Station	1	1	4	4	17	17	23	23	4	4
Replicate	1	1	2	1	1	2	1	2	1	2
Date (mo day)	Sep 14	Sep 22	Sep 22	Sep 12	Sep 12					
Hour	907	958	1031	1130	1225	1310	905	1010	2015	2100
Period	Day	Night	Night							
Tide	Ebb I	Ebb II	Ebb II	Ebb II	Flood I	Flood I				
Temp (deg C)	air	15.5	15.5	15.0	15.0	17.5	25.0	25.0	Bob I	Bob I
	sfc	18.5	18.5	18.8	18.8	22.0	20.7	20.7	24.0	24.4
Salinity (ppt)	sfc	13.0	13.0	16.0	16.0	15.0	15.0	15.0	-	-
Oxygen	sfc	8.1	8.1	8.6	8.6	8.4	8.4	8.4	-	-
pH	Bottom	-	-	-	-	-	-	-	-	-
Secchi (cm)	sfc	7.6	7.6	7.6	7.6	7.7	7.7	8.0	7.8	7.8
Anguilla rostrata	1	-	-	-	-	-	-	-	-	-
Alosa aestivalis	-	-	-	-	-	-	-	-	-	-
Anchoa mitchilli	68	1	7	2	1	-	-	-	2	2
Opsanus tau	4	4	1	1	-	-	-	-	11	3
Fundulus heteroclitus	-	-	-	-	-	-	-	-	-	-
Menidia menidia	4	1	1	6	-	-	-	-	1	1
Apeltes quadratus	1	1	1	1	-	-	-	-	3	9
Syngnathus fuscus	3	1	1	3	-	-	-	-	7	-
Ostethus lineatus	-	-	-	-	-	-	-	-	11	5
Pomatomus saltatrix	1	-	-	-	-	-	-	-	-	-
Caranx hippos	-	-	-	-	-	-	-	-	-	-
Trachinotus falcatus	-	-	-	-	-	-	-	-	-	-
Bairdiella chrysura	-	-	-	-	-	-	-	-	-	-
Cynoscion regalis	-	-	-	-	-	-	-	-	-	-
Menticirrhus saxatilis	-	-	-	-	-	-	-	-	3	3
Tautoga onitis	-	-	-	-	-	-	-	-	-	-
Mugil curema	-	-	-	-	-	-	-	-	-	-
Chasmodes bosquianus	-	-	-	-	-	-	-	-	-	-
Hypsoblennius hentzi	-	-	-	-	-	-	-	-	-	-
Gobiosoma boscii	-	-	-	-	-	-	-	-	-	-
Prionotus evolans	-	-	-	-	-	-	-	-	-	-
Paralichthys dentatus	-	-	-	-	-	-	-	-	-	-
Pseudopleuronectes americanus	-	-	-	-	-	-	-	-	-	-
Trinectes maculatus	-	-	-	-	-	-	-	-	1	1
Sphoeroides maculatus	-	-	-	-	-	-	-	-	4	1
Crangon septemspinosa	7	1	1	6	6	18	5	1	3	1
Callinectes sapidus	3	11	8	10	3	1	1	16	10	4
Total Specimens	92	21	30	19	21	19	166	40	53	34
Taxa	9	8	10	8	3	8	7	12	13	13

Appendix Table 9. (cont.)

Appendix Table 9. (cont.)

Station	4	4	17	17	1	1	4	4	17
Replicate	1	2	1	2	1	2	1	2	1
Date (mo day)	Oct 5	Oct 5	Oct 12	Oct 12	Nov 8	Nov 8	Nov 8	Nov 8	Nov 8
Hour	1935	2102	1930	2010	1032	1059	1120	1225	920
Period	Night	Night	Night	Night	Day	Day	Day	Day	956
Tide	Ebb II	Flood I	Ebb II	Flood I	Ebb II	Ebb II	Ebb II	Ebb II	Day
Temp (Deg C)	16.0	16.0	20.0	20.0	10.2	10.2	10.5	10.5	11.0
Temp (Deg C)	air	sfc	air	sfc	air	air	air	air	air
bottom	-	-	-	-	-	-	-	-	-
Salinity (ppt)	sfc	18.0	18.0	16.5	16.5	18.0	18.0	21.0	20.0
Oxygen	bottom	sfc	9.2	9.2	9.0	9.0	9.2	9.2	9.5
pH	bottom	sfc	8.1	8.1	7.8	7.8	7.6	7.6	7.7
Secchi (cm)	bottom	-	-	-	-	-	-	-	-
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.
Anguilla rostrata	-	-	-	-	3	-	-	-	-
Alosa pseudoharengus	-	-	-	-	1	-	-	-	-
Anchoa mitchilli	37	3	1	7	1	2	2	2	-
Opsanus tau	1	-	1	-	-	2	-	-	-
Fundulus heteroclitus	-	-	1	-	-	-	1	1	1
Menidia beryllina	-	-	-	-	-	-	3	17	7
Menidia menidia	2	-	-	-	1	1	-	-	2
Peltes quadracus	-	-	-	-	2	2	-	-	2
Syngnathus fuscus	2	-	-	-	1	1	5	9	1
Romatomus saltatrix	1	-	-	-	2	2	-	-	2
Trachinotus falcatus	-	-	4	-	-	-	-	-	-
Bairdiella chrysura	2	-	1	-	-	-	-	-	-
Cynoscion regalis	2	-	2	-	-	-	-	-	-
Chaetodon occellatus	1	-	1	-	-	-	-	-	-
Tautoga onitis	1	-	5	-	-	-	14	7	1
Mugil curema	2	-	1	-	-	-	-	-	-
Gobiosoma boscii	-	-	1	-	-	-	-	-	-
Peprilus triacanthus	-	-	1	-	-	-	-	-	-
Prionotus evolans	-	-	2	-	-	-	-	-	-
Pseudopleuronectes americanus	1	-	1	-	-	-	1	-	-
Trinectes maculatus	-	-	1	-	-	-	-	-	-
Crangon septemspinosa	10	-	9	16	71	87	19	10	17
Callinectes sapidus	5	13	8	2	-	-	2	5	26
Total Specimens	67	33	41	84	96	48	41	32	39
Taxa	13	6	10	5	4	6	7	5	6

Appendix Table 9. (cont.)

Species	No.	No.	No.	No.	No.							
<i>Conger oceanicus</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Anchoa mitchilli</i>	3	5	-	-	-	1	3	1	-	-	-	-
<i>Opsanus tau</i>	-	1	-	-	-	1	3	-	-	-	-	-
<i>Fundulus heteroclitus</i>	-	1	1	1	-	-	-	-	-	-	-	-
<i>Fundulus majalis</i>	-	2	-	-	-	-	-	-	-	-	-	-
<i>Menidia beryllina</i>	-	6	40	-	11	11	-	-	-	-	-	-
<i>Menidia menidia</i>	1	4	-	-	-	17	1	2	1	1	2	4
<i>Apeltes quadratus</i>	7	13	13	13	21	-	1	1	1	1	1	3
<i>Syngnathus fuscus</i>	2	4	5	-	-	-	-	-	-	-	-	-
<i>Tautoga onitis</i>	2	-	-	-	-	-	-	-	-	-	-	-
<i>Tautogolabrus adspersus</i>	-	2	-	-	-	-	-	-	-	-	-	-
<i>Chasmodes bosquianus</i>	-	1	-	-	-	-	-	-	-	-	-	-
<i>Gobiosoma boscii</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gobiosoma ginsburgi</i>	-	1	-	-	-	-	-	-	-	-	-	-
<i>Etrampus microstomus</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pseudopleuronectes americanus</i>	-	3	-	-	1	-	-	-	-	1	-	-
<i>Crangon septemspinosa</i>	102	477	179	133	165	91	737	1537	304	347	-	-
<i>Callinectes sapidus</i>	2	3	2	5	3	16	1	-	-	-	-	-
<i>Callinectes similis</i>	-	-	-	-	-	-	1	1	1	-	-	-
Total Specimens	120	523	240	189	186	117	744	1540	309	359	5	5
Total Taxa	8	14	6	7	8	7	5	4	5	5	5	5

Appendix Table 9. (cont.)

Station	17	17	23	23	4	4	17	17	4	4
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Dec 6	Jan 10	Jan 10							
Hour	1103	1150	1441	1550	1750	1844	1930	2044	958	1020
Period	Day	Day	Day	Day	Night	Night	Night	Night	Day	Day
Tide	Flood	I	Flood	II	Ebb	Ebb	Ebb	Ebb	Ebb	Ebb
Temp (Deg C)	air	12.0	12.0	13.0	4.0	4.0	3.5	3.5	-2.5	-2.5
sfc	9.2	9.2	9.5	9.5	6.0	6.4	6.4	6.4	1.0	1.0
bottom	-	-	-	-	-	-	-	-	-	-
Salinity (ppt)	sfc	20.0	20.0	24.0	24.0	22.0	20.0	20.0	20.0	20.0
bottom	-	-	-	-	-	-	-	-	-	-
Oxygen	sfc	10.1	10.1	11.2	11.3	12.0	12.0	11.5	10.9	10.8
Bottom	-	-	-	-	-	-	-	-	-	-
pH	sfc	-	-	-	-	-	-	-	-	-
Secchi (cm.)	-	-	-	-	-	-	-	-	-	-
Species	No.	No.								
<i>Alosa aestivalis</i>	-	-	-	1	-	-	-	-	1	-
<i>Fundulus heteroclitus</i>	2	-	-	-	-	1	1	1	-	-
<i>Fundulus majalis</i>	-	-	1	-	-	1	5	1	-	-
<i>Menidia beryllina</i>	-	-	-	206	206	13	1	1	6	3
<i>Menidia menidia</i>	10	4	8	9	2	1	1	1	-	2
<i>Apeltes quadratus</i>	5	1	3	4	1	1	2	1	-	-
<i>Syngnathus fuscus</i>	1	1	-	-	-	-	-	-	-	-
<i>Tautoga onitis</i>	2	-	-	-	-	-	-	-	-	-
<i>Gobiosoma boscii</i>	-	-	-	-	-	-	-	-	-	-
<i>Etrumeus microstomus</i>	-	-	1	1	1	1	1	1	3	1
<i>Pseudopleuronectes americanus</i>	-	-	-	-	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	64	127	363	518	1350	1218	298	673	2	3
<i>Callinectes sapidus</i>	5	1	-	-	-	3	24	1	-	-
Total Specimens	89	133	636	739	1368	1229	304	707	9	6
Taxa	7	4	6	6	6	7	5	5	5	3

Appendix Table 9. (cont.)

Station	17	17	23	23	4	4	17	17	17	17
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Jan 10	Jan 10	Jan 10	Jan 10	Jan 10	Feb 27				
Hour	1130	1155	1350	1425	1810	1900	1945	2030	1400	1455
Period	Day	Day	Day	Day	Night	Night	Night	Night	Day	Day
Tide	Ebb II	Ebb II	Ebb II	Ebb II	Flood II	Flood II	Flood II	Flood II	Ebb II	Ebb II
Temp (Deg C)	air	-2.0	-2.0	-1.0	-3.0	-3.0	-5.5	-5.5	4.0	4.0
sfc	5.0	5.0	1.6	1.6	1.7	1.5	3.3	3.3	5.4	5.3
bottom	-	-	-	-	-	-	-	-	-	-
Salinity (ppt)	sfc	20.0	20.0	20.5	20.5	15.0	17.0	10.0	14.0	16.0
bottom	-	-	-	-	-	-	-	-	-	-
Oxygen	sfc	10.8	10.8	12.2	12.2	12.8	12.8	11.8	11.9	10.6
Bottom	-	-	-	-	-	-	-	-	-	-
pH	sfc	6.8	6.8	8.0	8.0	7.8	7.8	7.8	7.8	7.6
Secchi (cm)	bottom	-	-	-	-	-	-	-	-	-
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
<i>Alosa aestivalis</i>	-	-	-	-	1	-	80	112	-	-
<i>Alosa pseudoharengus</i>	-	-	-	-	-	-	1	1	-	-
<i>Fundulus heteroclitus</i>	-	-	-	-	-	1	2	1	-	-
<i>Fundulus majalis</i>	-	-	-	-	1	-	-	-	15	15
<i>Menidia beryllina</i>	-	-	-	-	1	1	15	17	5	1
<i>Menidia menidia</i>	2	8	10	6	2	2	2	5	-	-
<i>Peltes quadratus</i>	-	2	3	1	-	-	2	2	-	-
<i>Syngnathus fuscus</i>	-	-	-	-	-	-	-	-	-	-
<i>Tautoga onitis</i>	-	-	-	-	-	-	-	-	-	-
<i>Pseudopleuronectes americanus</i>	-	-	-	-	1	3	3	4	5	5
<i>Crangon septemspinosa</i>	6	6	44	31	69	118	377	278	1	-
Total Specimens	8	16	57	39	72	123	480	419	21	1
Taxa	2	3	3	4	4	3	6	7	3	1

Appendix Table 9. (cont.)

Species	No.							
<i>Alosa pseudoharengus</i>	-	1	-	-	-	-	-	-
<i>Cyprinodon variegatus</i>	-	-	-	-	-	-	-	1
<i>Fundulus heteroclitus</i>	2	2	-	-	-	-	-	-
<i>Menidia menidia</i>	1	3	1	-	2	7	9	-
<i>Apeltes quadratus</i>	-	1	-	1	2	-	-	3
<i>Gasterosteus aculeatus</i>	-	1	-	1	-	-	1	-
<i>Syngnathus fuscus</i>	-	1	-	1	-	-	-	-
<i>Tautoga onitis</i>	-	-	1	-	2	-	6	5
<i>Pseudopleuronectes americanus</i>	-	-	-	-	-	-	3	1
<i>Crangon septemspinosa</i>	1	1	-	-	-	2	10	24
Total Specimens	4	8	2	2	2	6	25	39
Taxa	3	3	5	2	1	3	4	7

Appendix Table 9. (cont.)

Species	No.	No.	No.
<i>Anguilla rostrata</i>	-	4	-
<i>Alosa aestivalis</i>	-	1	7
<i>Alosa pseudoharengus</i>	1	6	-
<i>Alosa sapidissima</i>	-	-	-
<i>Fundulus</i>	-	-	-
<i>heteroclitus</i>	-	-	-
<i>Fundulus majalis</i>	1	1	7
<i>Menticirrhus undulatus</i>	2	1	-
<i>Apeltes quadratus</i>	-	6	-
<i>Gasterosteus</i>	-	1	-
<i>aculeatus</i>	2	1	-
<i>Morone americana</i>	1	2	-
<i>Tautoga onitis</i>	-	-	-
<i>Pseudopleuronectes americanus</i>	12	5	17
<i>Crangon septemspinosa</i>	51	37	95
<i>Callinectes sapidus</i>	7	9	5
Total Specimens	77	74	14
Taxa	8	12	8
			244

Appendix Table 10. Number of fishes, sand shrimp, and blue crab taken by 12-2-m seine from September 1978 through March 1979 in the mouths of Cedar Creek (Sta. 1), Forked River (4), Oyster Creek (17), and Double Creek (23).

Station	Replicate	1	1	4	4	17	17	23	23	4
Date (mo day)		1	2	1	2	1	2	1	2	2
Hour	Sep 14	Sep 14	Sep 14	Sep 14	Sep 14	Sep 14	Sep 14	Sep 14	Sep 14	Sep 12
Period										
Tide	Ebb I	Ebb I	Day	Ebb I	Ebb I	Day	Ebb I	Ebb I	Flood I	Night
Temp (Deg C)	15.5	15.5	15.0	15.0	15.0	17.5	17.5	20.0	Flood I	Ebb I
Salinity (ppt)	sfc	sfc	sfc	sfc	sfc	sfc	sfc	sfc	Day	Night
Oxygen	sfc	sfc	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Ebb II	Ebb I
pH	sfc	sfc	bottom	bottom	bottom	bottom	bottom	bottom	Flood I	Flood I
Secchi (cm)	-	-	-	-	-	-	-	-	Day	Day
Anchoa mitchilli	66	25	4	13	4	-	-	-	7	2
Synodus foetens	-	-	-	-	1	-	-	-	-	-
Fundulus heteroclitus	-	-	-	-	-	-	-	-	-	-
Fundulus majalis	-	-	-	-	-	-	-	-	-	-
Lucania parva	-	-	-	-	-	-	-	-	-	-
Menidia beryllina	-	-	-	-	-	-	-	-	-	-
Menidia menidia	51	115	6	1	1	46	28	90	10	9
Apeltes quadratus	2	1	3	1	1	-	-	31	16	-
Syngnathus fuscus	1	1	1	1	1	-	-	5	8	-
Pomatomus saltatrix	-	-	-	-	-	-	-	-	2	-
Caranx hippos	-	-	-	-	-	-	-	-	1	-
Trachinotus falcatus	-	-	-	-	-	-	-	-	1	-
Bairdiella chrysura	-	-	-	-	-	-	-	-	1	-
Cynoscion regalis	-	-	-	-	-	-	-	-	1	-
Mugil curema	-	-	-	-	-	-	-	-	1	-
Gobiosoma boscii	-	-	-	-	-	-	-	-	-	-
Pseudopleuronectes americanus	1	-	-	-	-	-	-	-	-	-
Trinectes maculatus	-	-	-	-	-	-	-	-	-	-
Sphoeroides maculatus	-	-	-	-	-	-	-	-	-	-
Crangon septemspinosa	104	60	1	1	1	4	4	79	27	4
Callinectes sapidus	1	1	1	1	1	2	1	10	1	6
Total Specimens	226	201	16	23	83	31	31	229	69	30
Taxa	7	4	6	7	6	6	8	6	6	6

Appendix Table 10. (cont.)

Station	17	17	1	1	4	4	17	17	23	23
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Sep 13	Sep 13	Oct 5	Oct 5	Oct 5	Oct 5	Oct 12	Oct 12	Oct 5	Oct 5
Hour	2058	2108	910	917	1034	1048	1425	1427	1425	1434
Period	Night	Night	Day	Day	Day	Day	Day	Day	Day	Day
Tide	Ebb I	Ebb I	Flood I	Flood II	Flood II	Flood II	Ebb I	Ebb I	Ebb I	Ebb I
Temp (Deg C)	air	-	20.5	20.5	21.0	21.0	22.0	22.0	21.4	21.4
	sfc	18.4	18.4	17.2	17.2	17.2	17.9	17.9	19.0	19.0
Salinity (ppt)	bottom	21.0	20.5	20.5	20.5	20.5	-	-	-	-
Oxygen	bottom	-	-	-	-	-	-	-	-	-
pH	sfc	7.7	7.8	8.1	8.1	9.6	9.6	9.6	9.1	9.1
	Bottom	-	-	-	-	-	-	-	-	-
	sfc	7.8	7.8	8.2	8.2	8.2	8.2	8.2	8.1	8.1
	bottom	-	-	-	-	-	-	-	-	-
Secchi (cm)	-	-	-	-	-	-	-	-	-	-
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
<i>Anguilla rostrata</i>	-	-	-	-	-	-	-	-	-	-
<i>Anchoa hepsetus</i>	-	1	-	-	-	-	-	-	-	-
<i>Anchoa mitchilli</i>	4	2	1	1	1	1	1	1	1	1
<i>Cyprinodon</i>	-	-	-	-	-	-	-	-	-	-
<i>variegatus</i>	-	-	-	-	-	-	-	-	-	-
<i>Fundulus</i>	-	-	-	-	-	-	-	-	-	-
<i>heteroclitus</i>	-	-	-	-	-	-	-	-	-	-
<i>Menidia beryllina</i>	-	-	-	-	-	-	-	-	-	-
<i>Menidia menidia</i>	6	6	103	-	-	-	-	-	-	-
<i>Apeltes quadratus</i>	-	-	-	-	-	-	-	-	-	-
<i>Syngnathus fuscus</i>	1	-	-	-	-	-	-	-	-	-
<i>Caranx hippos</i>	1	-	-	-	-	-	-	-	-	-
<i>Selene vomer</i>	-	-	-	-	-	-	-	-	-	-
<i>Trachinotus falcatus</i>	1	-	-	-	-	-	-	-	-	-
<i>Gobiosoma boscii</i>	-	-	-	-	-	-	-	-	-	-
<i>Crangon</i>	-	-	-	-	-	-	-	-	-	-
<i>septemspinosa</i>	-	-	-	-	-	-	-	-	-	-
<i>Calanectes sapidus</i>	7	2	-	-	2	-	-	-	-	-
Total Specimens	20	11	104	20	59	35	94	37	61	12
Taxa	6	4	2	3	8	7	6	3	5	3

Appendix Table 10. (cont.)

Station	4	4	17	17	1	1	4	4	17	17
Replicate	1	1	1	2	1	2	Nov 8	2	Nov 8	2
Date (mo day)	Oct 5	Oct 5	Oct 12	Oct 12	Nov 8	Nov 8	Nov 8	2	Nov 8	2
Hour	1958	1935	1944	1955	1037	1045	1154	935	941	941
Period	Night	Night	Night	Night	Day	Day	Day	Day	Day	Day
Tide	Ebb II	Ebb II	Flood I	Flood I	Ebb II					
Temp (Deg C)	16.0	16.0	20.0	20.0	10.2	10.2	10.5	10.5	11.0	11.0
Temp (air)	sfc	sfc	17.4	16.6	16.6	11.7	11.7	10.9	10.9	12.1
Salinity (ppt)	sfc	sfc	18.0	17.5	17.5	-	-	-	-	-
bottom	bottom	bottom	-	-	-	18.0	18.0	21.0	20.0	20.0
Oxygen	sfc	sfc	9.2	9.2	9.0	9.0	9.2	9.7	9.5	9.5
Bottom	Bottom	Bottom	8.1	8.1	7.8	7.8	7.6	7.6	7.7	7.7
pH	sfc	sfc	-	-	-	-	-	-	-	-
Secchi (cm.)	bottom	bottom	-	-	-	-	-	-	-	-
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Anguilla rostrata	1	-	-	-	-	-	-	-	-	-
Anchoa mitchilli	27	37	-	12	-	-	-	-	-	-
Opsanus tau	-	1	-	-	-	-	-	-	-	-
Rundulus heteroclitus	-	-	-	4	-	-	1	-	3	1
Menidia beryllina	-	-	-	4	-	-	2	-	29	1
Menidia menidia	3	2	1	4	3	3	3	-	-	1
Apeltes quadratus	3	2	1	4	3	3	3	-	-	1
Syngnathus fuscus	11	1	1	1	1	1	1	-	-	1
Pomatomus saltatrix	-	-	-	-	-	-	-	-	-	-
Trachinotus falcatus	-	-	-	-	-	-	-	-	-	-
Bairdiella chrysura	-	-	-	-	-	-	-	-	-	-
Cynoscion regalis	1	2	1	1	1	1	1	-	-	-
Chaetodon ocellatus	1	1	1	1	1	1	1	-	-	-
Tautoga onitis	1	2	1	1	1	1	1	-	-	-
Mugil curema	1	2	1	1	1	1	1	-	-	-
Gobiosoma boscii	7	-	-	-	-	-	-	-	-	-
Pseudopleuronectes americanus	-	1	-	-	-	-	-	-	-	-
Trinectes maculatus	1	-	-	-	-	-	-	-	-	-
Crangon septemspinosa	20	10	217	102	19	122	33	28	6	24
Callinectes sapidus	3	5	1	1	-	-	-	-	2	4
Total Specimens	78	67	220	123	22	132	37	28	41	31
Taxa	11	13	4	5	2	3	3	1	5	5

Appendix Table 10. (cont.)

Station	23	23	4	4	17	17	1	1	4
Replicate	1	2	1	2	1	2	1	2	2
Date (mo day)	Nov 8	Nov 8	Nov 8	Nov 8	Nov 8	Nov 8	Dec 6	Dec 6	Dec 6
Hour	1425	1439	1820	1835	1932	1940	930	940	1340
Period	Day	Day	Night	Night	Night	Night	Day	Day	Day
Tide	Flood I	Flood I	Ebb I	Ebb I	Ebb I	Ebb I	Flood I	Flood I	Flood II
Temp (Deg C)	air sfc	10.2 11.6	10.2 11.6	11.0 12.0	11.0 11.9	11.0 11.8	8.0 6.5	8.0 6.5	15.0 8.9
Salinity (ppt)	sfc bottom	21.0	21.0	21.0	21.0	19.5	19.5	14.0	22.0
Oxygen	sfc Bottom	9.8	9.8	-	-	-	-	-	-
pH	sfc bottom	7.6	7.6	7.5	7.5	7.5	7.5	-	-
Secchi (cm.)	-	-	-	-	-	-	-	-	-
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.
<i>Anguilla rostrata</i>	1	-	-	-	-	-	-	-	-
<i>Anchoa mitchilli</i>	4	-	-	-	-	10	4	-	-
<i>Cyprinodon variegatus</i>	-	-	-	1	-	-	-	-	-
<i>Fundulus heteroclitus</i>	5	1	1	1	-	-	2	-	1
<i>Fundulus majalis</i>	-	-	1	1	-	-	-	-	-
<i>Menidia beryllina</i>	9	15	15	26	24	76	47	4	1
<i>Menidia menidia</i>	178	-	2	2	1	1	-	-	-
<i>Poeltes quadracus</i>	1	1	1	1	1	1	-	-	-
<i>Syngnathus fuscus</i>	-	-	-	-	1	-	-	-	-
<i>Gobiosoma boscii</i>	-	-	-	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	433	271	76	412	240	343	82	175	134
<i>Callinectes sapidus</i>	1	1	-	7	1	-	-	-	135
Total Specimens	632	289	108	444	329	397	82	175	146
Taxa	8	5	7	4	6	5	1	1	4
									5

Total Specimens

Taxa

Total Specimens

Taxa

Appendix Table 10. (cont.)

Station	17	17	23	23	4	4	17	17	4	4
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Dec 6	Dec 6	Dec 6	Dec 6	Dec 6	Dec 6	Dec 6	Dec 6	Jan 10	Jan 10
Hour	1125	1142	1508	1530	1805	1828	1949	2031	1005	1010
Period	Day	Day	Day	Day	Night	Night	Night	Night	Day	Day
Tide	Flood I	Flood I	Flood II	Flood II	Ebb I	Ebb II	Ebb II	Ebb II	Ebb I	Ebb I
Temp (Deg C)	air	12.0	12.0	13.0	13.0	4.0	4.0	3.5	-2.5	-2.5
Salinity (ppt)	sfc	9.2	9.2	9.5	9.5	6.0	6.0	6.4	1.0	1.0
Oxygen	bottom	20.0	20.0	24.0	24.0	20.0	22.0	20.0	20.0	20.0
pH	bottom	10.1	10.1	11.2	11.3	12.0	12.0	11.5	10.9	10.8
Secchi (cm.)	bottom	-	-	-	-	-	-	-	-	-
Species	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
<i>Anguilla rostrata</i>	-	-	-	-	-	-	-	-	-	-
<i>Alosa aestivalis</i>	-	-	-	1	-	-	-	-	-	-
<i>Cyprinodon variegatus</i>	-	-	-	-	-	-	1	-	-	-
<i>Fundulus heteroclitus</i>	3	2	-	-	15	2	2	3	7	1
<i>Fundulus majalis</i>	4	4	-	-	-	1	1	1	-	-
<i>Menidia beryllina</i>	4	1	1223	843	37	52	9	28	-	-
<i>Menidia menidia</i>	9	1	8	3	-	9	20	21	6	1
<i>Apeltes quadracus</i>	-	-	-	-	-	2	-	-	-	-
<i>Syngnathus fuscus</i>	1	-	-	-	-	-	-	-	-	-
<i>Tautoga onitis</i>	-	-	-	-	-	-	-	2	-	-
<i>Gobiosoma boscii</i>	142	97	102	123	347	477	1176	685	2	14
<i>Crangon septemspinosa</i>	3	-	-	-	-	-	2	-	-	-
<i>Callinectes sapidus</i>	3	3	100	1333	985	387	544	1212	743	23
Total Specimens	166	166	100	1333	985	387	544	1212	743	23
Taxa	7	3	3	3	5	4	7	5	5	5

Appendix Table 10. (cont.)

Species	No.							
<i>Fundulus heteroclitus</i>	2	2	-	-	1	-	9	1
<i>Menidia beryllina</i>	-	-	-	-	1	-	-	2
<i>Menidia menidia</i>	1	5	5	14	18	4	4	6
<i>Apeltes quadratus</i>	-	-	-	-	-	-	25	29
<i>Tautogolabrus adspersus</i>	-	-	-	-	-	-	-	-
<i>Pseudopleuronectes americanus</i>	-	-	-	-	-	1	-	1
<i>Crangon septemspinosa</i>	75	63	4	65	208	130	470	608
Total Specimens	78	70	9	79	228	134	509	644
Taxa	3	3	2	2	4	2	5	4

Appendix Table 10. (cont.)

Species	No.										
<i>Cyprinodon variegatus</i>	-	-	-	-	-	-	-	-	-	6	-
<i>Fundulus heteroclitus</i>	18	6	1	-	-	-	-	2	4	11	1
<i>Fundulus majalis</i>	-	-	-	-	-	-	-	1	-	-	2
<i>Menidia beryllina</i>	-	1	7	2	-	-	-	2	-	-	2
<i>Menidia menidia</i>	4	12	10	6	-	-	-	3	5	5	4
<i>Apeltes quadratus</i>	15	8	3	4	-	-	-	1	4	-	3
<i>Pseudopleuronectes americanus</i>	-	-	-	-	-	-	-	23	201	86	213
<i>Crangon septemspinosa</i>	-	3	7	-	-	-	-	1	-	346	69
<i>Callinectes sapidus</i>	-	-	-	-	-	-	-	1	-	-	-
Total Specimens	37	30	28	12	24	214	95	368	368	222	77
Taxa	3	5	5	3	2	7	3	4	4	5	4

Appendix Table 10. (cont.)

Species	No.	No.	No.
<i>Anchoa mitchilli</i>	-	1	-
<i>Cyprinodon variegatus</i>	2	-	1
<i>Fundulus heteroclitus</i>	1	6	12
<i>Fundulus majalis</i>	3	-	-
<i>Menidia beryllina</i>	-	1	284
<i>Menidia menidia</i>	5	5	14
<i>Apeltes quadratus</i>	5	5	19
<i>Gasterosteus aculeatus</i>	2	-	1
<i>Morone americana</i>	-	1	-
<i>Rimicodus sp.</i>	-	1	-
<i>Grangon septemspinosa</i>	33	154	36
<i>Callionectes sapidus</i>	1	1	-
Total Specimens	47	168	350
Ta ta	7	6	8
			218
			6

Appendix table 11. Densities (n/1000 cubic meters) of macrozooplankton collected with a 36-cm bongo sampler (505-micron mesh) during the day and night at the intake (Sta. 7) and discharge (Sta. 11) of the Oyster Creek Generating Station from 5 September 1978 through 26 March 1979.

Appendix Table 11. (cont.)

Station	7	7	11	11	7	7	11	11	7	7	11	11
Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Sep 5	Sep 5	Sep 5	Sep 5	Sep 12							
Hour	2131	2149	2133	2151	918	928	918	928	918	928	918	928
Period	Night	Night	Night	Night	Day							
<i>Cerapus tubularis</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Jassa falcata</i>	Gravid	-	-	-	-	-	-	-	-	-	-	-
<i>Listriella barnardi</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Elasmopus levis</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Melita nitida</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Microprotopus raneyi</i>	Gravid	-	-	-	-	-	-	-	-	-	-	-
<i>Family Stenothoidae</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Stenothoe minutus</i>	Gravid	-	-	-	-	-	-	-	-	-	-	-
<i>Suborder Caprellidea</i>	Gravid	-	-	-	-	-	-	-	-	-	-	-
<i>Family Mysidae</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Mysidopsis bigelowi</i>	Gravid	-	-	-	-	-	-	-	-	-	-	-
<i>Neomysis americana</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Palaemonetes vulgaris</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Palaemonetes spp</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Hippolyte spp.</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Paegurus sp</i>	Zoeal	-	-	-	-	-	-	-	-	-	-	-
Infraclass Brachyura	Zoeal	-	-	-	-	-	-	-	-	-	-	-
<i>Callinectes sapidus</i>	Juvenile	-	-	-	-	-	-	-	-	-	-	-
	Megalopal	-	-	-	-	-	-	-	-	-	-	-
<i>Family Xanthidae</i>	Zoeal	-	-	-	-	-	-	-	-	-	-	-
<i>Panopeus herbstii</i>	Zoeal	-	-	-	-	-	-	-	-	-	-	-
<i>Neopanope sayi</i>	Zoeal	-	-	-	-	-	-	-	-	-	-	-
<i>Pinnixa chaetopterana</i>	Zoeal	-	-	-	-	-	-	-	-	-	-	-
<i>Sagitta spp.</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
<i>Family Molgulidae</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-
Totals	18323	24731	26437	30082	11038	11828	5924	5562	7879	17196		

Appendix Table 11. (cont.)

Station	11	11	7	7	11	11	7	7	11	11	11
Replicate	1	2	1	2	1	2	1	2	1	1	2
Date (mo day)	Sep 12	Sep 12	Sep 12	Sep 12	Sep 12	Sep 12	Sep 12	Sep 12	Sep 13	Sep 13	Sep 13
Hour	1437	1447	2135	2200	2137	2202	115	130	117	117	132
Period	Day	Day	Night								
Tow duration (min sec)	2 55	2 43	3 22	3 19	1 37	1 35	3 31	3 6	1 37	1 44	1 44
Tide	Flood I	Flood I	Ebb I	Ebb I	Ebb I	Ebb I	Ebb II				
Temperature (C)	33.0	33.0	19.0	19.0	19.0	19.0	17.5	17.5	17.5	17.5	17.5
air	30.8	30.8	23.9	23.9	28.8	28.8	22.9	22.9	27.0	27.0	27.0
surface	bottom	surface	bottom								
Salinity (ppt)	16.5	16.5	17.0	17.0	17.0	17.0	17.0	17.0	16.0	16.0	16.0
bottom	surface	bottom	surface	bottom	surface	bottom	surface	bottom	bottom	bottom	bottom
Oxygen (ppm)	8.0	8.0	7.9	7.9	7.9	7.6	7.6	7.6	7.0	7.0	7.0
pH	8.0	8.0	8.1	8.1	8.1	8.0	8.0	8.0	8.0	8.0	8.0
Secchi (cm)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Gear	Vol sampled (cubic meters)	25.0	25.0	15.0	11.2	13.1	12.3	14.0	13.0	12.8	14.4
Type of tow	Gear	4	4	4	4	4	4	4	4	4	4
Species	Lifestage	Density									
Class Hydrozoa	No determ.	120	196	67	89	-	163	143	79	156	139
Order Actiniaria	No determ.	120	39	-	-	-	-	-	-	-	-
Class Gastropoda	Larval	279	235	-	-	-	81	71	-	-	-
Suborder Doridacea	No determ.	-	-	-	-	-	-	-	79	-	278
Suborder Aeolidacea	No determ.	40	-	-	-	-	-	-	-	156	-
Class Polychaeta	Larval	40	78	67	67	-	163	143	79	-	313
Family Phyllodocidae	No determ.	-	-	-	-	-	-	-	-	-	139
Podarke obscura	No determ.	-	-	-	-	-	-	-	-	-	-
Nereis spp	Epitokes	-	-	-	-	-	-	-	-	-	-
Family Spionidae	No determ.	-	-	-	-	-	-	-	-	-	-
Polydora spp	No determ.	159	-	-	-	-	76	81	-	-	-
Scoloplos spp	No determ.	-	-	-	-	-	76	244	-	-	-
Order Sabellida	No determ.	-	-	-	-	-	76	76	-	-	-
Family Serpulidae	No determ.	-	-	-	-	-	76	81	-	-	-
Hydrorides dianthus	No determ.	-	-	-	-	-	76	163	-	-	-
Subphylum Pycnogonida	No determ.	-	-	-	-	-	76	81	-	-	-
Limulus polyphemus	Larval	-	-	-	-	-	229	-	-	-	-
Argulus spp	No determ.	-	-	-	-	-	229	163	-	-	-
Order Cumacea	No determ.	-	-	-	-	-	-	-	79	-	-
Cyclaspis varians	No determ.	-	-	-	-	-	-	-	156	-	-
Leucon americanus	Gravid	-	-	-	-	-	-	-	-	139	-
Oxyurostylis smithi	No determ.	-	-	-	-	-	-	-	-	417	-
Lironeca ovalis	No determ.	133	268	687	407	-	214	179	313	313	313
Idotea baltica	No determ.	-	-	-	-	-	-	-	-	139	-
Edotea triloba	No determ.	159	78	200	893	2595	4553	857	2047	2500	2778
Order Amphipoda	No determ.	80	78	1667	1875	2061	2195	643	79	1090	1250
Ampelisca spp.	Gravid	-	-	-	-	-	-	71	236	-	-

Appendix Table 11. (cont.)

Station	Replicate	11	11	11	11	7	7	11	11	7	7	11	11
	Date (mo day)	Sep 12	Sep 13	Sep 13	Sep 13	Sep 13							
	Hour	1437	1447	2135	2200	2137	2202	115	130	115	130	117	132
	Period	Day	Day	Night									
<i>Ampelisca</i> spp.	No determ.	398	235	-	-	-	-	5954	4146	-	-	2656	1944
<i>Microdeutopus</i>													
<i>grylotalpa</i>	No determ.	81	39	-	-	-	-	382	-	-	-	-	-
<i>Unciola</i> spp	No determ.	-	39	-	-	-	-	-	81	-	-	156	-
<i>Cerapustubularis</i>	No determ.	40	118	-	-	-	-	305	325	-	-	-	139
<i>Corophium achterusicum</i>	No determ.	-	78	-	-	-	-	-	-	-	-	-	-
<i>Corophium</i> spp	No determ.	40	-	-	-	-	-	-	-	-	-	156	-
Family <i>Gammaridae</i>	No determ.	-	39	-	-	-	-	-	-	-	-	-	-
<i>Gammarus mucronatus</i>	No determ.	-	39	-	-	-	-	-	163	-	-	-	-
<i>Jassa falcata</i>	Gravid	80	157	-	-	-	-	-	-	-	-	-	-
<i>Listriocella barnardi</i>	No determ.	916	1843	-	-	-	-	3588	1707	-	-	1875	3194
<i>Elasmopus levius</i>	Gravid	-	-	-	-	-	-	-	81	-	-	-	-
<i>Melita nitida</i>	No determ.	199	118	-	-	-	-	-	81	-	-	-	-
<i>Monoculoides edwardsi</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-	-
Family <i>Stenothoidae</i>	No determ.	1713	2196	-	-	-	-	305	244	-	-	156	556
<i>Parametopella cypris</i>	Gravid	-	39	-	-	-	-	-	163	-	-	156	-
<i>Stenothoe minutus</i>	No determ.	80	-	-	-	-	-	-	1985	1951	-	-	1094
<i>Stenothoe brevicornis</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-	-
Suborder Caprellidea	Gravid	-	-	-	-	-	-	-	-	-	-	-	-
<i>Mysidopsis bigelowi</i>	No determ.	-	-	-	-	-	-	-	-	-	-	-	-
<i>Neomysis americana</i>	No determ.	-	-	-	-	-	-	-	-	-	-	278	-
Family <i>Mysidae</i>	Gravid	-	-	-	-	-	-	-	-	-	-	-	-
<i>Palaemonetes pugio</i>	No determ.	40	-	-	-	-	-	-	-	-	-	-	-
<i>Palaemonetes</i> spp	No determ.	-	-	-	-	-	-	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	Zoeal	392	1667	2589	1069	2033	1786	1102	1719	972	-	-	-
<i>Pagurus</i> sp	Zoeal	-	267	714	-	-	2214	1024	-	-	-	-	-
Infraorder Brachyura	Zoeal	-	-	-	-	-	-	-	-	-	-	-	-
<i>Ovalipes ocellatus</i>	Zoeal	-	-	-	-	-	-	-	-	-	-	-	-
<i>Callinectes sapidus</i>	Megalopal	-	-	-	-	-	-	-	-	-	-	-	-
Family Xanthidae	Zoeal	-	-	-	-	-	-	-	-	-	-	-	-
<i>Panopeus herbstii</i>	Zoeal	40	39	-	-	-	-	-	76	81	143	156	278
<i>Neopanope sayi</i>	Zoeal	40	196	-	-	-	-	-	179	-	-	857	139
<i>Burynanopeus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
depressus	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Leptosynapta</i> spp	Zoeal	-	-	-	-	-	-	-	-	-	-	-	139
Family Molgulidae	No determ.	-	-	-	-	-	-	-	-	-	-	-	-
Totals		5423	6701	6402	9731	27400	26343	8713	7874	24528	24528	21253	

Appendix Table 11. (cont.)

Station	7	7	11	11	7	7	11	11	7	7
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Sep 19	Sep 19	Sep 19	Sep 19	Dec 5	Dec 5	Dec 5	Dec 5	Dec 12	Dec 12
Hour	2148	2215	2150	1913	1940	1942	1917	1942	2005	2005
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night
Tow duration (min sec)	3.45	4.52	1.55	4.43	4.37	3.3	3.3	4.51	4.44	4.44
Tide	Flood I	Flood I	Flood I	Ebb II	Ebb II	Ebb II	Ebb II	Flood II	Flood II	Flood II
Temperature (C)	air	air	air	air	air	air	air	air	air	air
bottom	surface	surface	bottom	bottom	bottom	bottom	bottom	bottom	bottom	bottom
Salinity (ppt)	surface	bottom	surface	bottom	surface	bottom	surface	bottom	surface	bottom
Oxygen (ppm)	19.0	19.0	20.0	20.0	-	-	-	-	-	-
pH	7.7	7.7	7.6	7.6	-	-	-	-	-	-
Secchi (cm)	7.5	7.5	-	-	-	-	-	-	-	-
Voi sampled (cubic meters)	5.0	13.7	7.4	15.5	28.3	37.6	19.8	21.1	28.6	29.9
Gear	4	4	4	4	4	4	4	4	4	4
Type of tow	1	1	1	1	1	1	1	1	1	1
Species	Lifestage	Density	Density	Density						
Phylum Invertebrata	No determin.	-	-	-	-	-	-	-	-	-
Class Hydrozoa	No determin.	-	-	-	-	-	-	-	-	-
Order Actiniaria	No determin.	-	-	-	-	-	-	-	-	-
Phylum Ctenophora	No determin.	-	-	-	-	-	-	-	-	-
Mnemiopsis leidyi	No determin.	-	-	-	-	-	-	-	-	-
Class Gastropoda	Larval	-	-	-	-	-	-	-	-	-
Suborder Neolidacea	No determin.	-	-	-	-	-	-	-	-	-
Class Bivalvia	Larval	-	-	-	-	-	-	-	-	-
Class Polychaeta	No determin.	-	-	-	-	-	-	-	-	-
Family Syllidae	No determin.	-	-	-	-	-	-	-	-	-
Nereis spp	No determin.	-	-	-	-	-	-	-	-	-
Polydora spp	Epitokes	-	-	-	-	-	-	-	-	-
Sabellaria vulgaris	No determin.	-	-	-	-	-	-	-	-	-
Subphyllum Pycnogonida	No determin.	-	-	-	-	-	-	-	-	-
Cyclaspis varians	No determin.	-	-	-	-	-	-	-	-	-
Leucon americanus	Gravid	-	-	-	-	-	-	-	-	-
Oxyurostylyis smithi	No determin.	-	-	-	-	-	-	-	-	-
Idotea baltica	No determin.	-	-	-	-	-	-	-	-	-
Edotea triloba	No determin.	-	-	-	-	-	-	-	-	-
Order Amphipoda	No determin.	-	-	-	-	-	-	-	-	-
Ampelisca spp.	Gravid	-	-	-	-	-	-	-	-	-
Microdeutopus grylotalpa	No determin.	-	-	-	-	-	-	-	-	-
Ceropales tubularis	No determin.	-	-	-	-	-	-	-	-	-
Corophium acherusicum	Gravid	-	-	-	-	-	-	-	-	-
	No determin.	-	-	-	-	-	-	-	-	-

Appendix Table 11. (cont.)

Station	7	7	11	7	7	11	11	7	7	7	7
Replicate	1	2	1	2	1	2	1	2	1	2	1
Date (mo day)	Sep 19	Sep 19	Sep 19	Dec 5							
Hour	2148	2215	2150	1913	1913	1935	1917	1940	1942	1942	1942
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night
Corophium tuberculatum	No determ.	-	-	-	-	-	-	-	-	-	-
Corophium spp	No determ.	-	-	-	-	-	-	-	-	-	-
Family Gammaridae	No determ.	-	-	-	-	-	-	-	-	-	-
Jassa falcata	Gravid	-	-	-	-	-	-	-	-	-	-
Elasmopus levius	No determ.	-	-	-	-	-	-	-	-	-	-
Melita nitida	No determ.	-	-	-	-	-	-	-	-	-	-
Monoculodes edwardsi	No determ.	-	-	-	-	-	-	-	-	-	-
Family Stenothoidae	Gravid	-	-	-	-	-	-	-	-	-	-
Parametopella cypris	No determ.	-	-	-	-	-	-	-	-	-	-
Suborder Caprellidea	No determ.	-	-	-	-	-	-	-	-	-	-
Family Mysidae	No determ.	-	-	-	-	-	-	-	-	-	-
Mysidopsis bigelowi	No determ.	-	-	-	-	-	-	-	-	-	-
Neomysis americana	No determ.	-	-	-	-	-	-	-	-	-	-
Infraorder Penaeidea	No determ.	-	-	-	-	-	-	-	-	-	-
Palaemonetes vulgaris	No determ.	-	-	-	-	-	-	-	-	-	-
Crangon septemspinosa	No determ.	-	-	-	-	-	-	-	-	-	-
Infraorder Brachyura	Zoeal	-	-	-	-	-	-	-	-	-	-
Callinectes sapidus	Megalopal Juvenile	-	-	-	-	-	-	-	-	-	-
Sagitta spp.	No determ.	-	-	-	-	-	-	-	-	-	-
Family Molgulidae	No determ.	-	-	-	-	-	-	-	-	-	-
Totals	0	25183	37565	18133	15088	8884	10050	12799	10141	10803	

Appendix Table II. (cont.)

Appendix Table II.

APPENDIX Table II. (cont.)

Appendix Table 11. (cont.)

Station	7	7	11	11	7	7	11	11	7	7
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Dec 19	Dec 19	Dec 19	Dec 19	Dec 20	Dec 20	Dec 20	Dec 20	Dec 27	Dec 27
Hour	1850	1900	1852	1902	115	130	117	133	1854	1909
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night
<i>Melita nitida</i>	No determ.	-	-	-	-	-	-	-	-	-
<i>Monoculodes edwardsi</i>	No determ.	-	-	-	-	-	-	-	-	-
<i>Stenothoe minutus</i>	No determ.	-	-	-	-	-	-	-	-	-
Family Mysidae	No determ.	-	-	-	-	-	-	-	-	-
<i>Mysidopsis bigelowi</i>	No determ.	-	-	-	-	-	-	-	-	-
<i>Neomysis americana</i>	No determ.	-	-	-	-	-	-	-	-	-
<i>Palaemonetes vulgaris</i>	No determ.	-	-	-	-	-	-	-	-	-
<i>Palaemonetes pugio</i>	No determ.	-	-	-	-	-	-	-	-	-
<i>Crangon septemspinosa</i>	No determ.	-	-	-	-	-	-	-	-	-
Gravid	-	-	-	-	-	-	-	-	-	-
Zoetal	-	-	-	-	-	-	-	-	-	-
<i>Sagitta</i> spp.	No determ.	-	-	-	-	-	-	-	-	-
<i>Leptosynapta</i> spp	No determ.	-	-	-	-	-	-	-	-	-
Family Molgulidae	No determ.	-	-	-	-	-	-	-	-	-
Totals	7947	8846	13258	13982	18964	12360	42854	25345	23060	18045

Appendix Table 11. (cont.)

Station	11	11	7	7	11	11	7	7	11	11	11
Replicate	1	2	1	2	1	2	1	2	1	2	1
Date (mo day)	Dec 27	Dec 27	Jan 5	Jan 22	Jan 22	Jan 22					
Hour	1856	1911	1940	1955	1942	1957	1920	1938	1922	1940	1940
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night
Tow duration (min sec)	0.58	1.0	2.21	2.23	1.13	1.5	2.9	2.6	0.59	1.0	1.0
Tide	Flood II	Flood II	Ebb II	Ebb II	Ebb II	Ebb II	Ebb II	Ebb II	Ebb I	Ebb I	Ebb I
Temperature (C)	-2.0	-2.0	-4.0	-4.0	-4.0	-4.0	-4.0	-4.0	1.0	1.0	1.0
Surface	air	surface	bottom	bottom	bottom	bottom	bottom	bottom	surface	surface	surface
Salinity (ppt)	21.0	21.0	18.0	18.0	18.0	18.0	18.0	18.0	20.0	20.0	23.0
Oxygen (ppm)	10.7	10.7	12.4	12.4	12.7	12.7	11.5	11.5	21.0	21.0	-
pH	8.0	8.0	8.1	8.1	8.0	8.0	8.0	8.0	8.0	8.0	10.4
Secchi (cm)	-	-	-	-	-	-	-	-	-	-	-
Vol sampled (cubic meters)	10.0	11.0	10.0	10.0	14.4	10.4	10.0	10.0	11.1	10.8	9.4
Gear	4	4	4	4	4	4	4	4	4	4	4
Type of tow	1	1	1	1	1	1	1	1	1	1	1
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density
Phylum Invertebrata	No determ.	417	367	-	-	-	-	-	-	-	-
Class Hydrozoa	No determ.	-	-	-	-	-	-	-	-	-	-
Obelia spp.	No determ.	-	-	-	-	-	-	-	-	-	-
Order Actiniaria	No determ.	417	-	-	-	-	-	-	-	-	-
Order Ceriantharia	No determ.	-	-	-	-	-	-	-	-	-	-
Mnemiopsis leidyi	Larval	-	-	-	-	-	-	-	-	-	-
Class Bivalvia	No determ.	-	-	-	-	-	-	-	-	-	-
Class Polychaeta	No determ.	-	-	-	-	-	-	-	-	-	-
Family Phyllodocidae	No determ.	-	-	-	-	-	-	-	-	-	-
Tomopteris helgolandica	No determ.	-	-	-	-	-	-	-	-	-	-
Family Polynoidae	No determ.	-	-	-	-	-	-	-	-	-	-
Family Syllidae	Larval	-	-	-	-	-	-	-	-	-	-
Brania clavata	No determ.	-	-	-	-	-	-	-	-	-	-
Family Capitellidae	No determ.	-	-	-	-	-	-	-	-	-	-
Class Oligochaeta	No determ.	-	-	-	-	-	-	-	-	-	-
Class Hirudinea	No determ.	-	-	-	-	-	-	-	-	-	-
Mysidobdella oculata	No determ.	-	-	-	-	-	-	-	-	-	-
Subclass Cirripedia	Oyrids	-	-	-	-	-	-	-	-	-	-
Clycaspis varians	No determ.	-	-	-	-	-	-	-	-	-	-
Leucon americanus	No determ.	-	-	-	-	-	-	-	-	-	-
Orurostyliis smithi	No determ.	-	-	-	-	-	-	-	-	-	-
Order Amphipoda	No determ.	-	-	-	-	-	-	-	-	-	-
Hoplisca spp.	No determ.	-	-	-	-	-	-	-	-	-	-
Microdeutopus grylliotalpa	No determ.	-	-	-	-	-	-	-	-	-	-
Corophium accherusicum	No determ.	-	-	-	-	-	-	-	-	-	-
Family Gammaridae	No determ.	-	-	-	-	-	-	-	-	-	-
Marinogammarus sp	No determ.	-	-	-	-	-	-	-	-	-	-
Elasmopus levius	No determ.	-	-	-	-	-	-	-	-	-	-
Melita nitida	No determ.	-	-	-	-	-	-	-	-	-	-

Appendix Table 11. (cont.)

Station	11	11	7	7	11	11	7	7	11	11
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Dec 27	Dec 27	Jan 5	Jan 22	Jan 22					
Hour	1856	1911	1940	1955	1942	1957	1942	1957	1938	1940
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night
Monoculodes edwardsi	No determ.	-	1101	-	-	192	-	100	-	-
Family Mysidae	No determ.	-	-	3333	1944	-	-	17658	-	388
Mysidopsis bigelowi	No determ.	417	734	-	-	192	200	-	556	-
Neomysis americana	No determ.	5000	4771	-	-	2404	2800	-	19259	35745
Palaemonetes vulgaris	No determ.	521	367	208	69	96	-	90	-	57087
Crangon septemspinosa	Gravid	-	-	-	-	-	-	-	93	-
Zoaea	No determ.	2813	1101	1979	1806	1442	2300	1261	1019	1942
Sagitta spp.	No determ.	6250	2936	3229	2014	2019	2100	901	1296	638
Totals	22085	18717	18437	13403	10575	13000	46755	50000	48937	79997

Appendix Table II. (cont.)

Appendix Table 11. (cont.)

Station	7	7	11	11	7	7	11	11	7	7
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31
Hour	907	945	910	947	1210	1220	1212	1222	1940	1955
Period	Day	Day	Day	Day	Day	Day	Day	Day	Day	Night
Orchomenella penguins	No determ.	-	-	-	-	-	-	-	-	83
Elasmopus levis	No determ.	-	-	-	-	-	-	-	-	83
Monoculodes edwardsi	No determ.	-	-	-	-	-	-	-	-	83
Microprotopus raneyi	No determ.	-	-	-	-	-	-	-	-	-
Family Stenothoidae	No determ.	-	-	-	-	-	-	-	-	-
Stenothoe minuta	No determ.	-	-	-	-	-	-	-	-	-
Suborder Caprellidea	No determ.	-	-	-	-	-	-	-	-	-
Family Mysidae	No determ.	-	-	-	-	-	-	-	-	-
Mysidopsis bigelowi	No determ.	-	-	-	-	-	-	-	-	-
Neomysis americana	No determ.	1862	1849	15862	9933	-	-	-	-	-
Palaemonetes vulgaris	No determ.	-	-	-	-	-	-	-	-	-
Palaemonetes spp	No determ.	-	-	-	-	-	-	-	-	-
Crangon septemspinosa	No determ.	-	-	-	-	-	-	-	-	-
Zoaea	1793	1438	3678	2067	1250	878	1522	1765	498	223
Sagitta spp.	No determ.	2483	1781	3333	2800	2500	2770	4203	3162	4066
Totals	10414	9381	25402	16535	6875	8583	9709	8385	21617	29331

Appendix Table 11: (cont.)

Appendix Table 11. (cont.)

Station	11	11	7	7	11	11	11	11	11	11	11
Replicate	1	2	1	2	1	2	1	2	1	2	1
Date (mo day)	Jan 31	Jan 31	Feb 1	Feb 8	Feb 8	Feb 14	Feb 14				
Hour	1948	2007	150	208	153	210	1955	2005	1935	1950	1950
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night
<i>Idotea baltica</i>	No determin.	42	-	-	-	43	-	-	-	-	37
<i>Edotea trilobata</i>	No determin.	-	-	-	-	-	-	-	-	45	75
Order Amphipoda	No determin.	-	-	762	381	-	196	104	-	-	149
<i>Ampelisca</i> spp.	No determin.	83	79	-	-	87	-	313	315	-	373
Microdeutopus	No determin.	-	-	-	-	-	-	-	-	-	-
<i>grylloitalpa</i>	No determin.	125	40	-	-	-	196	208	766	766	373
<i>Corophium</i>	No determin.	42	-	-	-	-	-	104	90	-	75
<i>tuberculatum</i>	No determin.	-	-	-	-	-	-	-	-	-	-
<i>Corophium</i> spp	No determin.	-	-	-	-	-	-	98	156	-	-
Family Gammaridae	No determin.	-	-	-	-	-	-	98	-	-	-
<i>Gammarus annulatus</i>	Gravid	42	-	-	-	-	563	469	294	417	-
<i>Gammarus mucronatus</i>	Gravid	83	79	-	-	-	-	-	-	-	-
<i>Gammarus</i> spp	No determin.	917	395	-	-	-	-	-	-	-	-
<i>Orchomenella penguins</i>	No determin.	292	198	-	-	-	-	-	-	-	-
<i>Melitta nitida</i>	No determin.	-	-	-	-	-	-	-	-	-	-
<i>Monoculides edwardsi</i>	No determin.	83	40	-	-	-	-	-	-	-	-
<i>Microprotopus raneyi</i>	No determin.	-	79	-	-	-	-	-	-	-	-
<i>Stenothoe minutus</i>	No determin.	-	-	-	-	-	-	-	-	-	-
Suborder Caprellidea	No determin.	-	-	-	-	-	-	-	-	-	-
Family Mysidae	No determin.	-	-	-	-	-	-	-	-	-	-
<i>Mysidopsis bigelowi</i>	No determin.	-	-	-	-	-	-	-	-	-	-
<i>Neomysis americana</i>	No determin.	5167	5217	-	-	-	17662	12582	26275	23333	1757
Zoea 1	-	-	-	-	-	-	-	98	-	-	1194
Order Decapoda	-	-	-	-	-	-	-	-	-	-	-
Zoeal	-	-	-	-	-	-	-	-	104	-	-
Infraorder Caridea	-	-	-	-	-	-	-	-	-	-	-
<i>Palaemonetes vulgaris</i>	No determin.	125	40	-	-	-	48	-	490	-	75
<i>Palaemonetes</i> spp	No determin.	-	-	-	-	-	-	47	-	104	-
<i>Crangon septemspinosa</i>	No determin.	708	435	429	476	433	235	1225	1615	1532	858
Zoea 1	2750	2530	1524	1333	1385	1315	1275	1458	811	709	-
Sagitta spp.	No determin.	4042	5296	2333	1667	1732	1033	490	625	135	261
Totals	14877	15972	19047	14955	22989	17231	37303	34790	10901	8321	-

Appendix Table 11. (cont.)

Station	7	7	7	11	11	11	11	11	11	11	11	11	11	11	11	11
Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Feb 22	Feb 22	Feb 22	Feb 22	Feb 23	Feb 23	Feb 23									
Hour	2120	2133	2122	2135	45	56	50	100	902	923	923	923	923	923	923	923
Period	Night		Day		Day											
Tow duration (min sec)	4		3.55		3.2		3.14		4.11		4.14		3.9		5.0	
Tide	Ebb I	Ebb II	Ebb II	Ebb II												
Temperature (°C)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5
Salinity (ppt)	1.0	1.0	1.0	1.0	10.8	10.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Oxygen (ppm)	1.5	1.5	1.5	1.5	-	-	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
pH	17.5	17.5	17.5	17.5	17.5	17.5	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Secchi (cm)	12.2	12.2	12.2	11.3	11.3	11.3	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Vol sampled (cubic meters)	18.5	13.0	23.2	27.0	27.0	27.0	17.1	17.1	18.5	24.2	24.2	24.2	24.2	24.2	24.2	24.2
Gear	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Type of tow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Species	Lifestage		Density		Density											
<i>Sarsia</i> spp.	No determin.	-	76	44												
Order Actiniaria	No determin.	-	76	45												
Order Ceriantharia	-	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suborder Aeolidacea	No determin.	-	83	76												
Class Bivalvia	No determin.	-	606	4978												
Class Polychaeta	Larval	3135	4538	302	407	9825	6703	661	661	661	661	661	661	661	4434	4434
Family Polynoidae	Larval	-	77	-	37	-	108	-	-	-	-	-	-	-	-	-
Family Syllidae	No determin.	54	-	43	-	175	-	108	-	-	-	-	-	-	76	44
<i>Autolytus</i> spp.	No determin.	162	-	43	-	324	-	83	-	-	-	-	-	-	88	88
<i>Sphaerocyllis</i>	No determin.	-	76	44												
<i>erinaceus</i>	No determin.	-	76	44												
Family Capitellidae	No determin.	108	77	172	74	-	-	-	-	-	-	-	-	-	76	44
Family Spionidae	No determin.	-	76	44												
Scolecolepides	viridis	No determin.	-	-												
<i>Stauroneretes rufolophi</i>	No determin.	-	-	-												
Family Trebellidae	No determin.	-	83	83												
Class Oligochaeta	No determin.	54	-	162	172	148	58	-	108	-	579	-	83	-	88	45
<i>Mysidobdella oculata</i>	No determin.	-	76	76												
Subphylum Pychogonida	No determin.	-	83	83												
Subclass Cirripedia	Cyprids	811	1538	308	172	1287	432	579	579	579	2197	-	1674	-	1267	-
<i>Leucos americanus</i>	No determin.	54	-	77	-	117	-	165	-	-	-	-	-	-	227	-
<i>Oxyurostylis smithi</i>	No determin.	-	-	45												
Order Isopoda	No determin.	-	-	-												
<i>Cyathura</i> spp.	No determin.	-	220	317												
Order Amphipoda	No determin.	-	620	152												
<i>Ampelisca</i> spp.	No determin.	-	-	-												
Family Aoridae	No determin.	-	-	-												
Microdeutopus	grylotalpa	595	923	172	37	1345	757	83	83	83	744	-	744	-	152	-
Unciola serrata	No determin.	-	-	-												
Lembos websteri	No determin.	-	-	-												
<i>Corophium acherusicum</i>	No determin.	-	-	-												

Appendix Table 11. (cont.)

Station	7	7	11	7	7	11	11	7	7
Replicate	1	2	1	2	1	2	1	2	2
Date (mo day)	Feb 22	Feb 22	Feb 22	Feb 23					
Hour	2120	2133	2122	2135	2122	2135	2100	902	923
Period	Night	Night	Night	Night	Night	Night	Night	Night	Day
<i>Corophium tuberculatum</i>	-	-	-	148	-	-	83	152	-
<i>Corophium</i> spp.	-	-	-	-	-	-	83	-	-
Family Gammariidae	No determ.	No determ.	No determ.	43	-	-	-	-	-
<i>Gammarus annulatus</i>	No determ.	Gravid	No determ.	-	74	-	41	38	-
<i>Gammarus mucronatus</i>	No determ.	Gravid	No determ.	-	407	-	83	152	-
<i>Gammarus</i> spp.	No determ.	No determ.	No determ.	86	37	-	83	114	-
<i>Jassa faicata</i>	No determ.	No determ.	No determ.	-	-	124	124	38	-
<i>Elasmopus levis</i>	No determ.	No determ.	No determ.	-	-	83	83	-	-
<i>Melita nitida</i>	No determ.	No determ.	No determ.	-	-	-	83	-	-
<i>Monoculoides edwardsi</i>	No determ.	No determ.	No determ.	302	74	-	165	152	-
<i>Microprotopus raneyi</i>	No determ.	No determ.	No determ.	-	-	-	83	-	-
<i>Stenothoe minuta</i>	No determ.	No determ.	No determ.	-	43	-	83	-	-
Suborder Caprellidea	No determ.	No determ.	No determ.	-	-	12398	7892	83	-
Family Mysidae	No determ.	No determ.	No determ.	7135	7692	10074	34876	25455	1057
<i>Neomysis americana</i>	No determ.	No determ.	No determ.	-	-	-	41	38	-
<i>Palaemonetes vulgaris</i>	No determ.	No determ.	No determ.	-	129	74	-	-	-
<i>Crangon septemspinosa</i>	No determ.	No determ.	No determ.	162	462	148	108	41	379
Zoaea	Zoaea	Zoaea	Zoaea	432	385	603	432	579	833
<i>Sagitta</i> spp.	No determ.	No determ.	No determ.	108	77	43	117	41	76
Class Holothuroidea	-	-	-	-	-	-	83	-	-
Totals	12972	16308	15472	13331	25614	17080	40708	32241	7963

Appendix Table II. (cont.)

Appendix Table 11. (cont.)

Station	11	11	11	7	7	11	11	7	7	11	11
Replicate	1	2	1	2	1	2	1	2	1	2	2
Date (mo day)	Feb 23	Feb 23	Feb 23	Feb 23	Feb 23	Feb 23	Feb 23	Feb 23	Feb 23	Feb 26	Feb 26
Hour	905	925	1143	1157	1145	1200	2012	2026	2026	2015	2028
Period	Day	Day	Day	Day	Day	Day	Night	Night	Night	Night	Night
<i>Corophium tuberculatum</i>	No determ.	233	85	-	-	-	129	-	-	571	75
<i>Erichthonius brasiliensis</i>	No determ.	47	-	-	-	-	-	-	-	-	-
<i>Erichthonius</i> spp	No determ.	-	42	-	-	-	-	-	-	-	-
<i>Gammareus annulatus</i>	Gravid	-	-	-	-	-	-	-	-	714	75
<i>Gammareus mucronatus</i>	No determ.	-	-	-	-	-	-	-	-	429	376
<i>Gammareus</i> spp	No determ.	-	-	-	-	-	-	-	-	-	75
<i>Elasmopus levius</i>	No determ.	47	85	-	-	-	-	-	-	4857	2267
<i>Melitta nitida</i>	No determ.	-	-	-	-	-	-	-	-	-	-
<i>Monoculodes edwardsi</i>	No determ.	-	-	-	-	-	-	-	-	-	-
Family Stenothoidae	No determ.	-	-	-	-	-	-	-	-	-	-
<i>Sthenothoe minuta</i>	No determ.	-	-	-	-	-	-	-	-	-	-
Suborder Caprellidea	No determ.	-	-	-	-	-	-	-	-	-	-
Family Mysidae	No determ.	-	-	-	-	-	-	-	-	-	-
<i>Neomysis americana</i>	Gravid	-	-	-	-	-	-	-	-	-	-
<i>Palaemonetes vulgaris</i>	No determ.	4744	3814	-	-	-	-	-	-	10429	15113
<i>Crangon septemspinosa</i>	No determ.	-	-	-	-	-	-	-	-	143	150
Zoal	No determ.	698	890	375	212	237	517	-	-	143	150
<i>Sagitta</i> spp.	No determ.	47	-	75	30	95	-	-	-	143	150
Class Holothuroidea	No determ.	47	-	-	-	-	-	-	-	-	-
		10660	6566	3858	3818	4926	5473	8375	9756	21146	19020

Appendix Table 11. (cont.)

Station	7	7	11	11	7	7	11	11	7	7	11	11	7	7
Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5
Hour	950	1005	1007	1300	1315	1302	1317	2030	2048	2050	2048	2050	2048	2050
Period	Day	Day	Day	Day	Day	Day	Day	Night						
Tow duration (min sec)	4 17	4 30	1 34	1 40	3 42	4 21	1 35	2 5	4 29	4 27	Ebb II	Ebb II	Ebb II	Ebb II
Tide	Ebb II	Low	Bbb II	Flood I	Flood II									
Temperature : °C	air	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Temperature : °C	surface	6.0	6.0	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
bottom	bottom	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Salinity (ppt)	surface	12.0	12.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
bottom	bottom	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Oxygen (ppm)	surface	11.6	11.6	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
bottom	bottom	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
pH	surface	7.7	7.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
bottom	bottom	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
Secchi (cm)	Vol sampled (cubic meters)	90.0	90.0	-	-	-	-	100.0	100.0	-	-	-	-	-
Gear	Type of tow	21.7	19.0	10.6	15.0	24.3	27.5	11.7	20.9	25.3	24.2	24.2	24.2	24.2
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density
Margelopsis gibbesi	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Sarsia spp	No determ.	138	158	94	200	41	-	-	-	-	-	-	-	-
Obelia spp	No determ.	46	-	-	-	-	-	-	-	-	-	-	-	-
Order Ceriantharia	Larval	-	-	-	-	-	-	36	-	-	-	-	-	-
Class Bivalvia	No determ.	138	105	-	-	-	-	41	-	-	-	-	-	-
Class Polychaeta	Larval	6083	6263	1132	933	2140	2036	342	431	431	431	431	431	431
Family Phyllodocidae	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Family Polynoidae	No determ.	46	53	-	-	-	-	-	-	-	-	-	-	-
Family Syllidae	No determ.	-	105	-	-	-	-	-	-	-	-	-	-	-
Podarke obscura	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Guptis vittata	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Nereis spp	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Scolecolpides viridis	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Class Oligochaeta	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Mysidobdella ocularis	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Subclass Clripedia	Cyprids	415	526	1226	1267	165	73	513	431	431	431	431	431	431
Leucos americanus	No determ.	92	-	94	-	-	-	85	-	-	-	-	-	-
Oxyurostylis smithi	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Order Isopoda	No determ.	92	53	-	-	-	-	-	-	-	-	-	-	-
Idotea baltica	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Order Amphipoda	No determ.	92	211	-	-	-	-	41	36	36	36	36	36	36
Ampelisca spp.	No determ.	-	-	189	-	-	-	-	-	-	-	-	-	-
Family Aoridae	No determ.	-	-	94	-	-	-	-	-	-	-	-	-	-
Microdeutopus grylotalpa	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ceropales tubularis	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Corophium acherusicum	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Corophium tuberculatum	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Corophium spp.	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Jassa falcata	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-
Elasmopus levius	No determ.	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix Table 11. (cont.)

Station	7	7	11	11	7	7	11	11	7	7	11	11
Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5	Mar 5
Hour	950	1005	952	1007	1300	1305	1315	1302	1317	2030	2048	2048
Period	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Night	Night
Melita nitida	No determ.	-	-	-	-	-	-	-	-	-	-	-
Monoculodes edwardsi	No determ.	-	-	-	-	-	-	-	-	-	-	-
Microprotopus raneyi	No determ.	-	-	-	-	-	-	-	-	-	-	-
Family Stenothoidae	No determ.	-	-	-	-	-	-	-	-	-	-	-
Suborder Caprellidea	No determ.	-	-	-	-	-	-	-	-	-	-	-
Family Mysidae	No determ.	-	-	-	-	-	-	-	-	-	-	-
Neomysis americana	No determ.	-	-	-	-	-	-	-	-	-	-	-
Palaemonetes vulgaris	No determ.	-	-	-	-	-	-	-	-	-	-	-
Crangon septemspinosa	No determ.	-	-	-	-	-	-	-	-	-	-	-
Zoeal	-	-	-	-	-	-	-	-	-	-	-	-
Sagitta spp.	No determ.	-	-	-	-	-	-	-	-	-	-	-
Totals	8432	9580	6790	6603	3292	3344	2990	2539	15416	19752		

Appendix Table 11. (cont.)

Station	Replicate	11	11	7	7	11	11	7	7	11	11
Date (mo day)	Mar 5	Mar 5	Mar 5	Mar 6	Mar 6	Mar 6	Mar 6	Mar 6	Mar 6	Mar 15	Mar 15
Hour	2032	2050	30	55	32	58	2045	2101	2047	Mar 15	Mar 15
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night
Tow duration (min sec)	2.51	2.54	4	33	4	35	2.44	2.50	3.43	1.54	1.52
Tide	Ebb II	Ebb II	Flood I	Flood I	Flood I	Flood I	Flood II				
Temperature (C) air	10.5	10.5	10.0	10.0	9.5	9.5	-2.0	-2.0	-2.0	-1.0	-1.0
Temperature (C) surface	17.3	17.3	7.2	7.2	17.3	17.3	9.5	9.5	9.5	15.5	15.5
Temperature (C) bottom	-	-	-	-	-	-	-	-	-	-	-
Salinity (ppt) surface	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	13.0	13.0
Salinity (ppt) bottom	-	-	-	-	-	-	-	-	-	-	-
Oxygen (ppm) surface	11.8	11.8	11.4	11.4	11.4	11.4	12.9	12.9	11.8	10.0	10.0
Oxygen (ppm) bottom	-	-	-	-	-	-	-	-	-	-	-
pH	7.4	7.4	7.6	7.6	7.6	7.6	7.1	7.1	7.5	7.8	7.8
Secchi (cm)	-	-	-	-	-	-	-	-	-	-	-
Gear	Vol sampled (cubic meters)	24.5	24.2	23.3	24.8	22.1	21.4	24.7	24.2	15.1	15.1
Type of tow	1	4	4	4	4	4	4	4	4	4	4
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density
Class Hydrozoa	No determin.	-	-	-	-	-	-	-	-	-	-
Sarsia spp	No determin.	327	165	172	-	-	-	93	-	6280	15629
Obelia spp	No determin.	-	83	172	-	-	-	-	648	-	-
Order Actiniaria	No determin.	41	-	-	-	-	-	47	-	-	-
Rhylum Nemerita	No determin.	-	-	-	-	-	-	-	162	-	-
Class Bivalvia	No determin.	163	413	601	81	181	-	-	324	992	1325
Class Polychaeta	Larval	980	496	4120	2581	543	467	93	2429	1157	2384
Family Phyllodocidae	No determin.	-	-	86	-	-	-	-	-	-	-
Eteone heteropoda	No determin.	-	41	-	-	-	-	-	-	-	-
Family Polynoidae	No determin.	-	-	343	161	90	-	-	-	-	-
Family Sylidae	No determin.	-	165	343	161	-	-	-	-	-	-
Autolytus spp	No determin.	-	41	-	-	-	-	-	162	-	-
Nereis spp	No determin.	-	-	-	-	-	-	-	-	165	-
Family Capitellidae	No determin.	-	-	-	-	-	-	-	-	-	-
Polydora spp	No determin.	-	-	-	-	-	-	-	-	-	-
Class Oligochaeta	No determin.	-	-	-	-	-	-	-	-	-	-
Mysidobdella oculata	No determin.	163	83	-	-	-	-	-	362	-	-
Subclass Cirripedia	Cyprids	1306	579	515	323	814	187	-	162	-	530
Leucon americanus	No determin.	653	579	1202	403	1267	654	810	324	331	1854
Oxyurostylis smithi	No determin.	163	-	258	565	-	280	-	-	331	2384
Order Isopoda	No determin.	-	-	258	-	-	-	-	-	-	265
Idotea baltica	No determin.	-	-	-	-	90	-	-	-	-	132
Edotea triloba	No determin.	-	-	-	81	-	-	-	-	-	-
Order Amphipoda	No determin.	-	83	2403	2500	-	-	-	1457	537	265
Ampelisca spp.	No determin.	5918	1736	-	-	3258	2710	-	-	-	-
Family Aoridae	No determin.	-	-	-	-	181	-	-	-	-	-
Microdeutopus grylliotalpa	No determin.	490	248	-	-	-	-	-	-	-	795
Leptocheris plumulosus	No determin.	-	-	-	-	-	-	-	-	-	265
Corophium accherusicum	No determin.	163	-	-	-	-	-	-	-	-	-
Corophium bonelli	No determin.	-	-	-	-	-	-	-	-	-	-
Corophium tuberculatum	No determin.	163	-	-	-	-	-	-	-	-	795

Appendix Table 11. (cont.)

Station	7	7	11	11	7	7	11	11
Replicate	1	2	1	2	1	2	1	2
Date (mo day)	Mar 19	Mar 19	Mar 19	Mar 19	Mar 26	Mar 26	Mar 26	Mar 26
Hour	2058	2117	2100	2119	2014	2038	2017	2040
Period	Night	Night	Night	Night	Night	Night	Night	Night
Tow duration (min sec)	5 8	5 12	3 1	3 5	4 31	5 15	3 9	3 10
Tide	Flood I	Flood I	Flood I	Flood I	Flood II	Flood II	Flood II	Flood II
Temperature (C)	3.0	3.0	2.0	2.0	2.0	2.0	0.0	0.0
Temperature (C) air	7.5	7.5	17.3	17.3	9.4	9.4	8.4	8.4
Salinity (ppt)	12.5	12.5	14.0	14.0	16.0	16.0	13.5	13.5
Oxygen (ppm)	10.9	10.9	11.0	11.0	11.0	11.0	-	-
pH	7.9	7.9	8.1	8.1	10.2	10.2	10.0	10.0
Secchi (cm)	-	-	-	-	7.6	7.6	7.8	7.8
Gear	Vol sampled (cubic meters)	30.2	30.7	26.0	26.3	13.1	16.2	23.0
Type of tow	4	4	4	4	4	4	4	4
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density
Sarsia spp	No determin.	2583	2410	2000	2586	77099	161235	106087
Obelia spp	No determin.	33	-	-	-	153	494	-
Class Scyphozoa	Ephyra	-	33	-	-	-	-	-
Order Actiniaria	No determin.	-	-	-	-	-	-	-
Order Ceriantharia	Larval	-	-	-	-	-	-	-
Suborder Aeolidacea	No determin.	-	-	-	-	-	-	-
Class Bivalvia	Larval	-	-	-	-	-	-	-
Class Polychaeta	No determin.	232	554	154	608	-	-	-
Family Syllidae	Larval	1159	1466	615	-	28092	51852	696
Autolytus spp	No determin.	-	-	-	-	-	-	-
Nereis spp	No determin.	-	-	-	-	-	-	-
Family Capitellidae	No determin.	33	33	-	-	-	-	-
Polydora spp	No determin.	-	-	-	-	-	-	-
Class Oligochaeta	No determin.	33	-	-	-	-	-	-
Mysidobdella oculata	No determin.	66	-	-	-	-	-	-
Subclass Cirripedia	Cyprids	530	749	2462	913	763	741	1217
Cyclaspis varians	No determin.	-	33	-	-	-	174	175
Leucos americanus	No determin.	364	423	462	608	153	-	1739
Oxyurostyli smithi	No determin.	33	163	-	608	-	174	4541
Chiridotea coeca	No determin.	-	-	-	-	-	-	-
Idotea baltica	No determin.	33	-	-	-	-	-	-
Edotea triloba	No determin.	33	-	-	-	-	-	-
Order Amphipoda	No determin.	1093	2117	-	-	-	-	-
Ampelisca spp.	No determin.	-	-	-	-	-	-	-
Family Aoridae	No determin.	-	-	-	-	-	-	-
Microdeutopus	Gravid	-	-	-	-	-	-	-
gryllopalpa	No determin.	154	456	-	-	-	-	-
Leptocheris	plumulosus	-	-	-	-	-	-	-
	No determin.	-	-	-	-	-	-	-

Appendix Table 11. (cont.)

Station	7	7	11	11	7	7	11	11	11
Replicate	1	2	1	2	1	2	1	2	1
Date (mo day)	Mar 19	Mar 19	Mar 19	Mar 19	Mar 26	Mar 26	Mar 26	Mar 26	Mar 2
Hour	2058	2117	2100	2119	2014	2038	2017	2040	Mar 26
Period	Night								
<i>Corophium accherusicum</i> No determ.	-	-	-	-	-	-	-	-	-
<i>Corophium tuberculatum</i>	No determ.								
<i>Gammarus annulatus</i>	No determ.								
<i>Gammarus spp</i>	-	-	-	-	-	-	-	-	-
<i>Jassa falcata</i>	No determ.								
<i>Elasmopus levius</i>	No determ.								
<i>Melita nitida</i>	No determ.								
<i>Monoculodes edwardsi</i>	No determ.								
Total mysids	1424	1466	1466	1466	1466	1466	1466	1466	1466
Family Mysidae	-	-	-	-	-	-	-	-	-
<i>Neomysis americana</i>	No determ.								
<i>Palaemonetes vulgaris</i>	No determ.								
<i>Crangon septemspinosa</i>	No determ.								
Zoopl.	1954	1661	2615	2738	24733	36049	20174	23406	218
<i>Sagitta spp.</i>	No determ.								
Totals	10132	11434	20232	19885	153895	258272	169262	215285	-

Appendix table 12. Densities (n/1000 cubic meters) of ichthyoplankton collected with a 36-cm bongo sampler (505-micron mesh) during the day and night at the intake (sta. 7) and discharge (sta. 11) of the Oyster Creek Generating station from 5 September through 26 March 1979

Appendix Table 12. (cont.)

Station	11	11	7	7	11	11	7	7	11	11	11
Replicate	1	2	1	2	1	2	1	2	1	2	1
Date (mo day)	Sep 12	Sep 12	Sep 12	Sep 12	Sep 12	Sep 12	Sep 12	Sep 12	Sep 13	Sep 13	Sep 13
Hour	1437	1447	2135	2200	2137	2202	115	130	117	117	132
Period	Day	Day	Night								
Tow Duration (min sec)	2 55	2 43	3 22	3 19	1 37	1 35	3 31	3 6	1 37	1 44	Ebb II
Tide	Flood I	Flood I	Ebb I	Ebb I	Ebb I	Ebb I	Ebb I	Ebb I	Ebb I	Ebb I	Ebb II
Temperature :°C	air	33.0	33.0	19.0	19.0	19.0	19.0	17.5	17.5	17.5	17.5
Temperature :°C	surface	30.8	30.8	23.9	23.9	28.8	28.8	22.9	22.9	27.0	27.0
Temperature :°C	bottom	-	-	23.4	23.4	-	-	23.2	23.2	-	-
Salinity (ppt)	surface	16.5	16.5	17.0	17.0	17.0	17.0	17.0	17.0	17.0	16.0
Salinity (ppt)	bottom	-	-	17.0	17.0	-	-	16.0	16.0	-	-
Oxygen (ppm)	surface	8.0	8.0	7.9	7.9	7.9	7.9	7.6	7.6	8.0	7.0
Oxygen (ppm)	bottom	-	-	7.9	7.9	-	-	7.5	7.5	-	-
pH	surface	8.0	8.0	8.1	8.1	8.1	8.0	8.0	8.0	8.0	8.0
pH	bottom	-	-	8.1	8.1	-	-	8.0	8.0	-	-
Secchi (cm)	80.0	80.0	-	-	-	-	-	-	-	-	-
Vol sampled (cubic meters)	25.0	25.5	15.0	15.0	11.2	13.1	12.3	14.0	13.0	12.8	14.4
Gear	4	4	4	4	4	4	4	4	4	4	4
Type of tow	1	1	1	1	1	1	1	1	1	1	1
Species	Lifestage	Density									
Anchoa mitchilli	Juvenile	40	39	67	268	153	325	71	394	391	278
	Larval	797	941	2600	3393	1374	2439	1214	1024	1484	1528
	Egg	80	78	-	-	-	-	-	-	-	-
Family Atherinidae	Larval	-	-	-	-	-	-	-	-	-	-
Syngnathus fuscus	Juvenile	80	-	200	89	-	-	-	-	-	-
Family Blenniidae	Larval	80	196	-	268	-	-	-	214	236	-
Family Gobiidae	Larval	-	-	-	-	-	-	-	-	-	-
Totals-Eggs		80	78	0	0	0	0	0	0	0	0
Totals-Larvae & Juveniles		997	1176	2867	4018	1603	2764	1499	1654	1875	1806
Totals		1077	1254	2867	4018	1603	2764	1499	1654	1875	1806

Appendix Table 12. (cont.)

Station	Replicate	7	7	11	11	7	11	11	2	1	7	7
Date (mo day)		Sep 19	Sep 19	Sep 19	Sep 19	Dec 5	Dec 5	Dec 5	Dec 5	Dec 12	Dec 12	2
Hour		2148	2215	2150	2217	1913	1935	1917	1940	1942	2005	
Period		Night										
Tow Duration (min sec)		3.45	4.52	1.55	3.4	4.43	4.37	3.3	3.3	4.51	4.44	
Tide	Flood	I	Flood	I	Flood	I	Ebb	Ebb	Ebb	Ebb	Ebb	
Temperature : (C)	air	13.0	13.0	13.0	13.0	4.0	4.0	4.0	4.0	-1.5	-1.5	
surface	surface	19.0	19.0	20.0	20.0	8.6	8.6	7.2	7.2	4.6	4.6	
bottom	bottom	20.0	20.0	~	~	7.5	7.5	~	~	~	~	
Salinity (ppt)	surface	16.0	16.0	16.0	16.0	20.0	20.0	20.0	20.0	20.0	20.0	
bottom	bottom	14.5	14.5	~	~	21.0	21.0	~	~	~	~	
Oxygen (ppm)	surface	~	~	~	~	11.2	11.2	11.2	11.2	10.7	10.7	
bottom	bottom	~	~	~	~	11.2	11.2	11.2	11.2	~	~	
pH	surface	7.7	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.5	
bottom	bottom	7.5	7.5	~	~	8.0	8.0	8.0	8.0	8.1	8.1	
Secchi (cm)	Vol sampled (cubic meters)	5.0	13.7	7.4	15.5	28.3	37.6	19.8	21.1	28.6	29.9	
Gear	Type of tow	4	4	4	4	4	4	4	4	4	4	
Species	Lifestage	Density										
Brevoortia tyrannus	Juvenile	~	~	~	~	~	~	~	51	~	~	
Anchoa mitchilli	Juvenile	~	219	135	65	~	27	~	47	~	~	33
	Larval	~	292	~	129	~	~	~	~	~	~	~
Apeltes quadratus	Juvenile	~	~	~	~	~	~	~	~	~	~	33
Family Blennidae	Larval	~	~	~	65	~	~	~	~	~	~	~
Ammodytes sp.	Larval	~	~	~	~	~	53	~	~	~	~	~
Totals-Eggs		0	0	0	0	0	0	0	0	0	0	
Totals-Larvae & Juveniles		0	511	135	259	0	80	51	47	0	66	
Totals		0	511	135	259	0	80	51	47	0	66	

Appendix Table 12. (cont.)

Station	Replicate	11	11	7	7	11	11	7	7	11	11	11
Date (mo day)	Dec 12	Dec 12	Dec 19	Dec 19	Dec 19	Dec 19	Dec 19	Dec 19	Dec 19	Dec 19	Dec 19	Dec 19
Hour	1945	2008	1000	1038	1002	1040	1343	1358	1345	1358	1400	1400
Period	Night	Night	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
Tow Duration (min sec)	3 0	3 9	4 26	2 42	3 10	1 0	3 27	3 4	1 10	1 10	1 10	1 10
Tide	Flood II	Flood II	Flood I	Flood II	Flood I	Flood II	Ebb I					
Temperature (C)	air	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5
Temperature (C)	surface	14.3	14.3	1.1	1.1	1.1	7.2	7.2	2.0	2.0	2.0	2.0
bottom	bottom	-	-	-	-	-	-	-	3.5	3.5	3.5	3.5
Salinity (ppt)	surface	20.0	20.0	20.5	20.5	20.0	20.0	20.5	20.5	20.5	20.0	20.0
bottom	bottom	-	-	-	-	-	-	-	20.5	20.5	-	-
Oxygen (ppm)	surface	11.2	11.2	10.5	10.5	10.6	10.6	10.5	10.5	10.5	11.1	11.1
bottom	bottom	-	-	-	-	-	-	-	10.9	10.9	-	-
pH	surface	8.0	8.0	7.7	7.7	7.7	7.9	7.9	7.7	7.7	7.9	7.9
bottom	bottom	-	-	-	-	-	-	-	7.9	7.9	-	-
Secchi (cm)	-	-	-	-	-	-	-	-	-	-	-	-
Vol sampled (cubic meters)	24.9	28.5	21.7	15.0	17.0	9.1	16.3	14.7	11.2	11.2	10.8	10.8
Gear	4	4	4	4	4	4	4	4	4	4	4	4
Type of tow	1	1	1	1	1	1	1	1	1	1	1	1
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density
Brevortia tyrannus	Juvenile	-	-	-	-	-	-	-	-	-	-	-
Anchoa mitchilli	Juvenile	40	-	-	67	-	-	-	-	-	68	-
Ammodytes sp.	Larval	-	-	-	267	-	220	245	-	-	68	-
Totals-Eggs		0	0	0	0	0	0	0	0	0	0	0
Totals-Larvae & Juveniles		40	0	0	334	0	220	245	136	357	741	741
Totals		40	0	0	334	0	220	245	136	357	741	741

Appendix Table 12. (cont.)

Station	7	7	11	7	7	11	11	7	7
Replicate	1	2	1	2	1	1	2	1	2
Date (mo day)	Dec 19	Dec 19	Dec 19	Dec 19	Dec 20	Dec 20	Dec 20	Dec 27	Dec 27
Hour	1850	1900	1852	1902	115	130	117	1854	1909
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night
Tow Duration (min sec)	2 9	2 11	Ebb II	Ebb II	1 1	2 7	2 4	1 2	2 13
Tide	-1.5	-1.5	-1.5	-1.5	Ebb II	Flood II	Flood II	Flood II	Flood II
Temperature :C) air	1.4	1.4	8.5	8.5	-1.5	-2.2	-2.2	-2.2	-2.0
Temperature :C) surface	2.1	2.1	-	-	8.5	0.8	0.8	8.0	-2.0
Salinity (ppt)	20.0	20.0	18.0	18.0	-	1.7	1.7	-	-2.5
Oxygen (ppm)	20.0	20.0	-	-	19.0	20.0	18.5	18.5	22.0
pH	7.8	7.8	7.9	7.9	11.8	11.8	19.0	-	21.0
Secchi (cm)	-	-	-	-	-	-	-	-	21.0
Vol sampled (cubic meters)	11.7	11.3	8.9	10.3	10.6	8.9	9.1	10.1	13.0
Gear	4	4	4	4	4	4	4	4	4
Type of tow	1	1	1	1	1	1	1	1	1
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density	Density
Anguilla rostrata	Larval	-	-	-	-	-	-	-	-
Anchoa mitchilli	Juvenile	-	-	-	-	-	-	-	-
Ammodytes sp.	Larval	531	225	583	-	449	1538	594	99
Unidentified fish	Egg	-	-	-	-	-	-	-	-
Total-Eggs		0	0	0	0	0	0	0	0
Total-Larvae & Juveniles		171	531	225	583	449	1538	693	299
Totals		171	531	225	583	449	1538	693	299

Appendix Table 12. (cont.)

Station	11	11	7	7	11	11	7	7	11	11
Replicate	1	2	Jan	5	Jan	5	Jan	2	Jan	2
Date (mo day)	Dec 27	-Dec 27	1940	1940	1942	1957	1920	1922	Jan 22	Jan 22
Hour	1856	1911	Night	Night	Night	Night	Night	Night	1940	1940
Period									Night	Night
Tow Duration (min sec)									0 58	0 59
Tide	Flood	II	0 1	0	2 21	2 23	1 13	2 9	1 0	1 0
Temperature :°C	air		-2.0	-2.0	Ebb II	Ebb II	Ebb II	Ebb I	Ebb I	Ebb I
surface			13.0	13.0	-4.0	-4.0	-4.0	-4.0	-4.0	-4.0
bottom					1.6	1.6	9.8	9.8	1.0	1.0
Salinity (ppt)	surface					1.3	1.3	2.8	2.8	1.0
bottom			21.0	21.0	18.0	18.0	18.0	18.0	18.0	18.0
Oxygen (ppm)	surface					18.0	18.0	20.0	20.0	20.0
bottom			10.7	10.7	12.4	12.4	12.7	12.7	12.7	12.7
pH						12.5	12.5	11.5	11.5	11.5
Secchi (cm)						12.5	12.5	11.6	11.6	11.6
vol sampled (cubic meters)						8.0	8.1	8.0	8.0	8.0
Gear						8.0	8.1	8.0	8.0	8.0
Type of tow										
Species	Lifestage	Density								
Anquilla rostrata	Larval	-	-	-	-	-	-	-	-	-
Anchoa mitchilli	Juvenile	-	92	-	-	-	-	-	-	-
Ammodytes sp.	Larval	48333	38165	-	10486	6346	7700	1081	2130	426
Unidentified Fish	Egg	-	-	-	-	385	-	-	-	426
Totals-Eggs		0	0	0	385	0	0	0	0	426
Totals-Larvae & Juveniles		48333	38257	0	10486	6346	7700	1081	2223	426
Totals		48333	38257	0	10486	6731	7700	1081	2223	1748

Appendix Table 12. (cont.)

Station	7	7	11	11	7	7	11	11	7	7
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31	Jan 31
Hour	907	945	910	947	1210	1220	1212	1222	1940	1955
Period	Day	Day	Day	Day	Day	Day	Day	Day	Night	Night
Tow Duration (min sec)	3 13	3 18	1 48	1 34	3 23	3 21	1 30	1 33	4 42	4 24
Tide	Flood I	Flood I	Flood I	Flood II	Flood I	Flood I				
Temperature (C)	air	2.2	2.2	2.2	4.2	4.2	4.2	4.2	1.0	1.0
Temperature (C)	surface	2.2	2.2	12.0	3.1	3.1	14.0	14.0	3.8	3.8
bottom	2.8	2.8	-	-	4.7	4.7	-	-	4.0	4.0
Salinity (ppt)	surface	14.5	14.5	14.0	14.0	17.0	17.0	17.0	18.0	18.0
bottom	14.5	14.5	-	-	16.5	16.5	-	-	16.0	16.0
Oxygen (ppm)	surface	12.5	12.5	11.0	11.0	13.3	13.3	11.8	11.8	12.9
bottom	12.3	12.3	-	-	12.9	12.9	-	-	12.9	12.9
pH	surface	7.9	7.9	7.8	7.8	7.9	7.9	8.0	8.0	7.9
bottom	7.9	7.9	-	-	7.9	7.9	-	-	8.0	8.0
Secchi (cm)	-	60.0	60.0	60.0	60.0	50.0	50.0	50.0	-	-
Vol sampled (cubic meters)	-	14.5	14.6	8.7	15.0	14.4	14.8	13.8	13.6	24.1
Gear	-	4	4	4	4	4	4	4	4	4
Type of tow	-	1	1	1	1	1	1	1	1	1
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density	Density	Density
<i>Anguilla rostrata</i>	Larval	-	-	-	-	-	-	-	-	-
<i>Gadus morhua</i>	Larval	-	-	-	70	-	-	-	-	-
<i>Ammodytes sp.</i>	Larval	5448	-	5402	2800	13264	11149	8768	8529	19502
<i>Pseudopleuronectes americanus</i>	Egg	-	-	-	-	-	-	362	-	-
Unidentified Fish	Egg	759	-	1149	-	3403	405	1522	5662	-
	Bigg	-	805	3470	208	68	72	147	-	335
Totals-Eggs		759	0	1954	3470	3611	473	1956	5809	0
Totals-Larvae & Juveniles		5448	0	5402	2940	13264	11149	8840	8529	19834
Totals		6207	0	7356	6410	16875	11622	10796	14338	28771
									14338	19834
										29106

Appendix Table 12. (cont.)

Station	11	11	7	7	11	11	11	11	11	11	11	11
Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Date (mo day)	Jan 31	Jan 31	Feb 1	Feb 8	Feb 8	Feb 14	Feb 14	Feb 14				
Hour	1948	2007	150	208	153	210	1955	2005	1935	1950	1950	1950
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night	Night
Tow Duration (min sec)	3 7	3 8	4 54	4 53	2 50	2 37	2 43	2 40	2 42	2 46	2 46	2 46
Tide	Flood I	Flood I	Ebb I	Ebb I	Ebb I	Ebb I	Flood II					
Temperature (C)	air	1.0	1.0	-2.0	-2.0	-2.0	-2.0	-6.0	-6.0	-10.0	-10.0	-10.0
Temperature (C)	surface	12.0	12.0	2.8	2.8	11.0	11.0	13.0	13.0	7.6	7.6	7.6
Salinity (ppt)	bottom	-	-	3.0	3.0	-	-	-	-	-	-	-
Salinity (ppt)	surface	16.0	16.0	16.5	16.5	15.5	15.5	24.0	24.0	17.0	17.0	17.0
Bottom	bottom	-	-	16.5	16.5	-	-	-	-	-	-	-
Oxygen (ppm)	surface	12.2	12.2	12.6	12.6	11.5	11.5	10.8	10.8	9.8	9.8	9.8
Bottom	bottom	-	-	13.3	13.3	-	-	-	-	-	-	-
pH	surface	8.0	8.0	8.0	8.0	7.9	7.9	8.2	8.2	7.7	7.7	7.7
Secchi (cm)	bottom	-	-	7.8	7.8	-	-	-	-	-	-	-
Vol sampled (cubic meters)	Gear	24.0	25.3	21.0	21.0	23.1	21.3	20.4	19.2	22.2	22.2	26.8
Type of tow	1	4	4	4	4	4	4	4	4	4	4	4
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density
Anguilla rostrata	Larval	125	-	190	381	87	235	49	52	270	270	149
Alosa aestivalis	Juvenile	-	-	-	48	-	-	-	-	-	-	-
Brevoortia tyrannus	Juvenile	-	-	48	-	-	-	-	-	-	-	-
Ammodytes sp.	Larval	7500	-	11238	13143	6494	4038	1471	2500	3468	3468	2575
Pseudopleuronectes americanus	Egg	-	-	-	-	-	-	-	-	45	45	-
Unidentified fish	Larval	-	95	-	-	-	-	-	-	-	-	-
	Egg	292	-	4190	2429	121905	108169	98	-	586	586	149
	Egg	417	-	-	48	1039	563	6176	2188	-	-	-
Totals-Eggs		709	0	4190	2477	122944	108732	6274	2188	631	631	149
Totals-Larvae & Juveniles		7625	0	11571	13572	6581	4273	1520	2552	3738	3738	2724
Totals		8334	0	15761	16049	129525	113005	7794	4740	4369	4369	2873

Appendix Table 12. (cont.)

Station	7	7	11	11	7	7	11	11	7	7
Replicate	1	2	1	2	1	2	1	2	1	2
Date (mo. day)	Feb 22	Feb 22	Feb 22	Feb 22	Feb 23					
Hour	2120	2133	2122	2135	45	56	50	100	902	923
Period	Tow Duration (min sec)	Night	Day							
Tide	Ebb I	Ebb I	Ebb I	Ebb I	Ebb II	Day				
Temperature (C)	air	-1.0	-1.0	-1.0	-1.0	-1.5	-1.5	-1.5	-1.5	5 0
Temperature (C)	surface	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Bbb 1
Salinity (ppt)	bottom	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	4.5
Salinity (ppt)	surface	17.5	17.5	17.5	17.5	17.0	17.0	17.0	17.0	4.5
Oxygen (ppm)	bottom	17.5	17.5	17.5	17.5	17.0	17.0	17.0	17.0	4.5
Oxygen (ppm)	surface	12.2	12.2	11.3	11.3	12.5	12.5	12.5	12.5	4.5
pH	bottom	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	4.5
Secchi (cm)	surface	7.8	7.8	7.8	7.8	7.7	7.7	7.7	7.7	4.5
Secchi (cm)	bottom	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	4.5
Vol sampled (cubic meters)	Gear	18.5	13.0	23.2	27.0	17.1	18.5	24.2	26.4	22.7
Type of tow	Gear	4	4	4	4	4	4	4	4	4
Species	Lifestage	Density								
Anguilla rostrata	Larval	-	-	-	-	-	-	-	-	-
Anomodutes sp.	Larval	3243	4154	3147	2222	58	-	41	-	-
Pseudopleuronectes americanus	Egg	-	-	-	111	4854	4108	4463	1894	3392
Unidentified fish	Larval	-	-	-	-	-	-	-	-	-
	Egg	-	-	-	-	-	-	-	-	-
	Egg	108	-	474	222	585	108	2397	606	44
	Egg	-	-	-	37	-	54	83	-	45
Totals-Eggs		108	0	474	370	585	162	2480	606	44
Totals-Larvae & Juveniles		3243	4154	3190	2222	4912	4162	4504	1894	3392
Totals		3351	4154	3664	2592	5497	4324	6984	2500	3436
										2579

Appendix Table 12. (cont.)

Station	Replicate	11	11	7	7	11	11	7	7	11	11
Date (mo day)	Feb 23	Feb 23	Feb 23	Feb 23	Feb 23	Feb 23	Feb 23	Feb 26	Feb 26	Feb 26	Feb 26
Hour	905	925	1143	1157	1145	1200	2012	2026	2026	2015	2028
Period	Day	Day	Day	Day	Day	Day	Day	Night	Night	Night	Night
Tow Duration (min sec)	2 32	2 44	5 0	5 30	5 5	2 23	2 45	2 40	1 10	1 36	1 36
Tide	Ebb I	Ebb I	Ebb II	Ebb II	Ebb II	Ebb II	Flood II	Flood II	Flood II	Flood II	Flood II
Temperature (°C)	air	4.5	4.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Salinity (ppt)	surface	10.2	10.2	1.9	1.9	1.9	13.5	13.5	1.2	1.2	1.2
Oxygen (ppm)	bottom	-	-	2.1	2.1	-	-	-	-	-	-
pH	surface	17.0	17.0	19.0	19.0	19.0	17.0	17.0	11.0	11.0	11.0
Secchi (cm)	bottom	-	-	11.6	11.6	11.9	11.9	11.0	11.0	13.0	13.0
Vol sampled (cubic meters)	bottom	-	-	7.6	7.6	7.7	7.7	7.6	7.3	11.8	11.8
Gear	bottom	-	-	-	-	7.7	7.7	7.6	7.3	7.3	7.3
Type of tow	-	-	-	-	-	200.0	200.0	-	-	-	-
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density
Pholis gunnellus	Larval	-	-	-	-	-	-	-	-	-	-
Ammodytes sp.	Larval	-	-	-	-	-	-	-	-	-	-
Pseudopleuronectes americanus	Larval	3349	2839	6667	-	3460	3793	3846	3537	2000	-
Unidentified fish	Larval	-	-	-	-	-	-	-	-	-	-
	Egg	-	-	-	-	-	-	-	-	-	-
Totals-Eggs		372	254	75	-	95	43	85	-	-	-
Totals-Harvae & Juveniles		3349	2839	6667	75	474	172	-	106463	143	-
Totals		3721	3093	6742	0	3602	3836	3931	3537	857	0
				0	4123	4008	3931	110000	3143	2286	0
										3143	0

Appendix Table 12. (cont.)

Station	7	7	11	7	7	11	11	11	11
Replicate	1	2	1	2	1	2	2	1	2
Date (mo day)	Mar 19	Mar 19	Mar 19	Mar 19	Mar 21	Mar 21	Mar 26	Mar 26	Mar 26
Hour	2058	2117	2100	2119	2014	2038	2017	2040	2040
Period	Night	Night	Night	Night	Night	Night	Night	Night	Night
Tow Duration (min sec)	5 8	5 12	3 1	3 5	4 31	5 15	3 9	3 10	3 10
Tide	Flood I	Flood I	Flood I	Flood I	Flood II				
Temperature (C)	air	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
	surface	7.5	7.5	17.3	17.3	9.4	9.4	8.4	8.4
	bottom	-	-	-	-	9.5	9.5	-	-
Salinity (ppt)	surface	12.5	12.5	14.0	14.0	16.0	16.0	13.5	13.5
	bottom	-	-	-	-	17.0	17.0	-	-
Oxygen (ppm)	surface	10.9	10.9	11.0	11.0	10.0	10.0	10.0	10.0
	bottom	-	-	-	-	10.2	10.2	-	-
pH	surface	7.9	7.9	8.1	8.1	7.6	7.6	7.8	7.8
	bottom	-	-	-	-	7.6	7.6	-	-
Secchi (cm)	-	-	-	-	-	-	-	-	-
Vol sampled (cubic meters)	30.2	30.7	26.0	26.3	13.1	16.2	23.0	22.9	22.9
Gear	4	4	4	4	4	4	4	4	4
Type of tow	1	1	1	1	1	1	1	1	1
Species	Lifestage	Density	Density	Density	Density	Density	Density	Density	Density
Anguilla rostrata	Larval	66	163	77	38	-	62	87	218
Ammodytes sp.	Larval	530	456	462	-	1374	741	-	-
Pseudopleuronectes americanus	Larval	16556	15440	615	-	41374	34321	-	-
Unidentified fish	Egg	132	-	-	-	-	-	-	-
	Egg	-	65	-	-	-	-	-	-
Totals-Eggs		132	65	0	0	0	0	0	0
Totals-Hybrids & Juveniles		17152	16059	12231	38	42748	35124	87	218
Totals		17284	16124	12231	38	42748	35124	87	218